U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-288 215

Submerged Aquatic Vegetation Chesapeake Bay Baseline Data Acquisition

Chesapeake Research Consortium, Inc, Baltimore, MD

Prepared for

Environmental Protection Agency, Philadelphia, PA Chesapeake Bay Program

Apr 78

EPA 903/9-78-020

PB 288215

EPA Contract No. 68-01-3994

SECOND INTERIM REPORT

April 1978

APPENDIX II

Submerged Aquatic Vegetation

Completed Report

Chesapeake Research Consortium, Incorporated

prepared by

Virginia Institute of Marine Science

Center for Environmental and Estuarine Studies,

University of Maryland

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

Chesapeake Research Consortium, Incorporated

Virginia Institute of Marine Science
Director's Office, Maury Hall
Gloucester Point, Virginia 23062
(804) 642-2111, Extension 10

The Johns Hopkins University
University of Maryland
Smithsonian Institution
Virginia Institute of Marine Science

333

TECHNICAL REPORT DATA

(Please read Instructions on the reverse before completing)

1. REPORT NO. EPA 903/9-78-020	2.	3. RECIPIENT'S ACCESSION NO. PB288215
4. TITLE AND SUBTITLE "Submerged Aquatic Vegetation" (Chesapeake Bay Baseline Data Acquisition)		5. REPORT DATE April, 1978
		6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S)		8. PERFORMING ORGANIZATION REPORT NO.
9. PERFORMING ORGANIZATION NAME AND ADDRESS Chesapeake Research Consortium Johns Hopkins University 100 Merryman Hall Baltimore, MD 21218		10. PROGRAM ELEMENT NO.
		11. CONTRACT/GRANT NO. 68-01-3994
12. SPONSORING AGENCY NAME AND ADDRESS Chesapeake Bay Program EPA - Region III 6th & Walnut Sts., Philadelphia, PA 19106		13. TYPE OF REPORT AND PERIOD COVERED Final
		14. SPONSORING AGENCY CODE

15. SUPPLEMENTARY NOTES

16. ABSTRACT

This report contains:

1. Directory of Research Activities on Submerged Aquatic Vegetation,
2. Annotated Bibliography of the Chesapeake Bay Submerged Aquatic Vegetation,
3. Data files of Chesapeake Bay Submerged Aquatic Vegetation,
4. Monitoring Programs for the Chesapeake Bay.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Research Vegetation	Chesapeake Bay Submerged Aquatic Vegetation Estuarine Areas	

18. DISTRIBUTION STATEMENT RELEASE TO PUBLIC	19. SECURITY CLASS *(This Report)* UNCLASSIFIED	21. NO. OF PAGES 333
	20. SECURITY CLASS *(This page)* UNCLASSIFIED	22. PRICE PCA15 / MF A01

EPA Form 2220-1 (9-73)

CHESAPEAKE BAY BASELINE DATA ACQUISITION

SUBMERGED AQUATIC VEGETATION REPORT

Contract No. 68-01-3994

between

U.S. Environmental Protection Agency

and

Chesapeake Research Consortium, Incorporated

3 April 1978

Chesapeake Research Consortium, Incorporated

Virginia Institute of Marine Science
Director's Office, Maury Hall
Gloucester Point, Virginia 23062
(804) 642-2111, Extension 10

The Johns Hopkins University
University of Maryland
Smithsonian Institution
Virginia Institute of Marine Science

2

ANNEX I

Directory of Research Activities

Submerged Aquatic Vegetation

The "Directory of Research Activities" contains a listing of researchers who have worked on submerged aquatic vegetation, their affiliations, and their research activities arranged alphabetically by researcher. The names listed include those applicable to the Chesapeake Bay, the Eastern and Gulf coasts and other national and international estuarine areas. Almost 100 individuals and their activities have been identified. The information was compiled from interviews with researchers, the scientific literature, data files and organizations.

ANNEX I

Directory of Research Activities
Submerged Aquatic Vegetation

Altaway, D. H. State Geological Survey, University of Kansas	Normal alkanes of five coastal spermatophytes - Gulf of Mexico.
Anderson, M. G. Delta Waterfowl Research Station, Portage La Prairie, Manitoba, Canada	Submerged aquatic vascular plant distribution, production and waterfowl utilization - Canada.
Anderson, R. R. American University	Primary production and distribution of submerged aquatic vegetation - Chincoteague and Chesapeake Bays, Patuxent River, Maryland.
Back, S. D. Allegheny College	Plant detritus export from *Zostera marina* beds - Beaufort, N. C.
Bailey, G. W. EPA Laboratory, Athens, Georgia	Herbicide and pesticide runoff from coastal plain soil types.
Barsdate, R. J. University of Alaska	Lagoon contributions to sediments and water - Bering Sea.
Bean, G. A. University of Maryland	Lake Venice Disease of *Myriophyllum spicatum* - Rhode River, Maryland.
Birch, W. R. James Cook University of North Queensland, Australia	Tropical marine angiosperms (*Zostera*) - Queensland.
Blackburn, R. D. U. S. Departmnet of Agriculture, Aquatic Weeds Research Laboratory, Fort Lauderdale, Florida	Physiology and chemical control of aquatic weeds.
Bonnet-Gravier, N. Station Marine d'Endoume, Marseille, France	Epiphytes on Phanerogames - N.W. of Madagascar.
Boynton, W. Chesapeake Bay Laboratory, University of Maryland	Food chain dynamics and ecosystems modeling of submerged aquatic communities.

Bridges, K. W. University of Hawaii	Systematic ecology.
Burrell, D. C. University of Alaska	Seagrass ecosystem oceanography.
Camp, D. K. Florida Department of Natural Resources, St. Petersburg	Overgrazing of seagrasses by a regular urchine, *Lytechinus variegatus* - Florida Gulf Coast.
Chabreck, R. H. Office of Biological Services, Department of the Interior	Effects of hurricane Camille on marshes - Mississippi River,
Chapman, V. J. University of Auckland, Auckland, New Zealand	Biology of excessive weed growth in hydro-electric lakes.
Churchill, A. C. Cornell University	Transplanting *Zostera marina* for sediment stabilization.
Clark, L. J. Annapolis Field Office, Environmental Protection Agency	Nutrients - upper Chesapeake Bay.
Clayton, J. S. University of Auckland, Auckland, New Zealand	Distribution of freshwater aquatic vascular plants.
Corbett, M. K. University of Maryland	Viruses of aquatic plants - Chesapeake Bay.
Correll, D. L. Chesapeake Bay Center for Environmental Studies, Smithsonian Institution	Rural non-point pollution studies including herbicides, sediments, phytoplankton, submerged aquatic vegetation - Rhode and Choptank Rivers, Poplar Islands, Maryland.
Davis, G. East Carolina University	Submerged macrophytes - Pamlico River Estuary, N. C.
Decell, J. L. U. S. Army, Waterways Experiment Station, Vicksburg, Mississippi	Aquatic plant management - Florida, Georgia, Texas, Louisiana.
Den Hartog, C. Catholic University, Nijmegen, The Netherlands	Structure, function and classification in seagrass communities.

Dillon, C. R. Clemson University	Primary productivity of phytoplankton and macrobenthic plants.
Duncan, W. H. University of Georgia	Aquatic plants - S. E. United States, Atlantic and Gulf Coasts.
Fauchald, K. University of Southern California	Surf grass habitat as a nursery for juvenile spiny lobsters - California.
Felger, R. Environmental Research Laboratory, University of Arizona	Nutritional value of *Zostera marina* - Gulf of California.
Fenchel, T. University of Aarhus, Aarhus, Denmark	Aspects of the decomposition of seagrasses.
Fenwick, G. M. Johns Hopkins University	Survey of submerged aquatic vegetation in Eastern Bay and adjacent tributaries - Chesapeake Bay.
Felmer, D. A. Washington, D. C. Office, Environmental Protection Agency	Primary productivity - Chesapeake Bay.
Freeman, T. E. Institute of Food and Agricultural Science, State University of Florida System, Gainesville	Biological control of water weeds with plant pathogens.
Goering, J. J. University of Alaska	Nitrogen fixation by epiphytes on seagrasses - Redfish Bay, Texas.
Gravier, N. - see Bonnet-Gravier	
Harrison, P. G. Dalhousie University, Halifax, Nova Scotia	*Zostera marina* seasonal cycle of growth and decay - Atlantic Coast of Canada.
Hartog, C. - see Den Hartog	
Hentges, J. F. Agricultural Experiment Station, State University of Florida System, Gainesville	Processed aquatic plants for animal nutrition.

Higman, D. Chesapeake Bay Center for Environmental Studies, Smithsonian Institution	Emergent vascular plants in wetlands - Chesapeake Bay.
Howarth, R. W. Woods Hole Oceanographic Institution	Structure and function of salt marsh ecosystems, role of vascular plants in estuaries.
Iverson, R. L. Florida State University	Primary productivity studies in seagrass ecosystems.
Jupp, B. P. The University, St. Andrews, Scotland	Limitations of macrophytes (*Potamogeton*) in a eutrophic lake - Lock Leven, Scotland.
Kant, S. University of Jammu, India	Limnology, ecology of aquatic macrophytes, productivity of inland waters through plankton.
Kelly, J. A., Jr. National Marine Fisheries Service Biological Laboratory, St. Petersburg Beach, Florida	Transplanting and survival of *Thalassia testudinum* - Florida.
Kemp, W. M. Center for Environmental and Estuarine Studies, Horn Point, University of Maryland	Food chain dynamics and ecosystem modeling of submerged aquatic vegetation.
Kerwin, J. A. New Orleans Office, Bureau of Land Management	Distribution and abundance of aquatic vegetation - upper Chesapeake Bay.
Kikuchi, T. Kyushu University, Amakusa, Kumamoto-ken, Japan	Consumer ecology of seagrass beds.
Kirkman, H. CSIRO, Division of Fisheries, Deception Bay, Queensland, Australia	Seagrass communities - Stradbrooke Island, Australia.
Klug, M. J. Michigan State University	Decomposition of dissolved and particulate organic detritus in seagrass ecosystems.
Labus, B. C. Ravensburg - Bavendorf Schuhmacherof, West Germany	Influence of borates and detergents on submerged macrophytes.

Larkum, A. W. D. Cornell University	Seagrass communities - Australia.
Ledoyer, M. Station Marine d'Endoume, Marseille, France	Seagrasses - Mediterranean and Madagasscar.
Lipkin, Y. Tel Aviv University, Tel Aviv, Israel	Seagrass vegetation - Israel and Sinai.
Lippson, A. J. Martin Marietta Corporation	Natural resources - Chesapeake Bay, Maryland.
Lipschultz, F. University of Maryland	Nitrogen fixation of epibenthic communities associated with seagrasses.
Lot-Helgueras, A. Universidad Nacional Autónoma de México, Mexico 20 D.F., Mexico	Seagrass ecosystems - Mexico.
Marsh, G. A. Florida Atlantic University	Epifauna of *Zostera marina* - York River, Virginia.
Marshall, N. University of Rhode Island	Food transfer through lower trophic levels of the benthic environment - New England Coast.
McMillan, C. University of Texas	Environmental tolerances, production ecology and physiology of seagrasses.
McNabb, C. D. Michigan State University	Evaluation of herbicides on aquatic plants.
McRoy, C. P. University of Alaska	Process succession, nutrients and physiology of seagrasses.
Menzie, C. E. G. and G. Company, Waltham, Massachusettes	*Myriophyllum* - Hudson River, New York.
Munro, R. E. Patuxent Research Center, U. S. Fish and Wildlife Service	Distribution and abundance of submerged aquatic vegetation - upper Chesapeake Bay.
Nixon, S. W. University of Rhode Island	Metabolism of *Zostera marina*.
Odum, W. E. University of Virginia	Aquatic plants.

Ogden, J. C. Fairleigh Dickinson University	Seagrass food web study - Caribbean.
Orth, R. J. Virginia Institute of Marine Science	Submerged aquatic vegetation - Chesapeake Bay, Virginia.
Parker, P. L. University of Texas	Stable carbon isotope ratios of food webs and biogeochemical cycles in seagrass ecosystems.
Peres, J. M. Station Marine d'Endoume, Marseilles, France	Consumer ecology of seagrass beds.
Peverly, J. H. Cornell University	Productivity, management and ecology of aquatic vascular plants.
Phillips, R. C. Seattle Pacific College	Phenology, ecology and transplanting of *Zostera marina* - Puget Sound, Washington.
Queen, W. H. East Carolina University	Ecology of halophytes.
Rasmussen, E. University of Copenhagen, Copenhagen, Denmark	Systematics, ecology and wasting disease of *Zostera marina*.
Rawls, C. K. Chesapeake Biological Laboratory, University of Maryland	*Myriophyllum spicatum* as a waterfowl food source and its control by herbicides - Chesapeake Bay, Maryland.
Reynolds, S. C. P. and J. D. University of Victoria, Victoria, B. C., Canada	Distribution of aquatic angiosperms in saline waters.
Roddy, L. R. Southern University A&M College	Effects on productivity of crayfish in pond habitats.
Sand-Jensen, K. University of Copenhagen, Copenhagen, Denmark	Growth dynamics in *Zostera marina* populations - Denmark.
Shea, G. B. Consultant, Bothell, Washington	Ultraviolet radiation on salt marsh ecosystems.

Shepard, S. A. Department of Fisheries and Fauna Conservation, Adalaide, Australia	Surveys of seagrasses - Upper Spencer Gulf, Australia.
Shirley, R. L. Agricultural Experiment Station, State University of Florida System, Gainesville	Toxic substances and chemical composition of water plants.
Sieburth, J. M. University of Rhode Island	Fouling on *Zostera marina*.
Southwick, C. H. Johns Hopkins University	Surveys of submered aquatic vegetation - Chesapeake Bay, Maryland.
Stevenson, J. C. Center for Environmental and Estuarine Studies, Horn Point, University of Maryland	Submerged aquatic vegetation, including taxonomy, distribution and abundance, biology, inter-specific relationships, historical trends, assessment of environmental factors and management options.
Steward, K. K. U. S. Department of Agriculture, Aquatic Weeds Research Laboratory, Fort Lauderdale, Florida	Aquatic plant management.
Stotts, V. D. Maryland Department of Natural Resources, Annapolis	Distribution and control of *Myriophyllum spicatum* by herbicides - Chesapeake Bay, Maryland.
Suchova, H. Slovak Academy of Science, Czechoslovakia	Ecology of macrophytic aquatic communities - Danube River.
Taylor, B. F. University of Miami, Florida	Nitrogen fixation in seagrass communities.
Thayer, G. W. National Marine Fisheries Service Fisheries Laboratory, Beaufort, N.C.	Structural and functional aspects of a *Zostera marina* community.
Thomassin, B. A. Station Marine d'Endoume, Marseille, France	Seagrass epiflora and epifauna - Tuléar, Madagascar.
Thorhaug, A. University of Miami, Florida	Transplantation and the effect of energy impacts on a semitrophical seagrass community.

Unni, K. S. Government College, Chhindwara, India	Productivity of aquatic vascular plants, noxious aquatic vegetation.
Uotila, P. University of Helsinki, Helsinki, Finland	Taxonomy, ecology, sociology and distribution of aquatic plants.
Wester, H. National Ecological Services Laboratory, National Park Service, Washington, D. C.	Impact of chlorine on submerged aquatic vegetation - Potomac River, Maryland.
Wetzel, R. G. Michigan State University	Decomposition of dissolved and particulate organic detritus in seagrass ecosystems.
Wise, E. S. Christopher Newport College	Submerged aquatic vegetation; wetlands ecology - Chesapeake Bay, Virginia.
Wu, T. L. Chesapeake Bay Center for Environmental Studies, Smithsonian Institution	Herbicide studies - Rhode River, Maryland.
Wujek, D. E. Central Michigan University	Taxonomy and ecology of aquatic vascular plants - Michigan, Denmark, Austria, Switzerland, Germany.
Young, P. C. Queensland Fisheries Research Institute, CSIRO, Deception Bay, Queensland, Australia	Seagrass communities - Moreton Bay, Queensland, Australia.
Zieman, J. C., Jr. University of Virginia	Origin, thermal effluent stress, ecology and food web study of seagrasses - Caribbean and Florida.

ANNEX II

Annotated Bibliography of the Chesapeake Bay Submerged Aquatic Vegetation

This bibliography contains summaries of research projects that have been done on submerged aquatic vegetation between 1948 and 1977. The bibliography is intended to provide key references for Bay researchers and managers.

Accompanying the bibliography is an index which has been developed to provide a quick reference, listing over 125 subjects. Each subject is followed by a number or series of numbers which refer to specific articles in the bibliography.

The bibliography was abstracted chiefly from a report entitled "Summary of Available Information on Chesapeake Bay Submerged Aquatic Vegetation" with J. Court Stevenson as principal investigator (FWS 14-16-008-1255, September 1977, University of Maryland Center for Environmental and Estuarine Studies and Department of Botany).

ANNEX II

Annotated Bibliography of Chesapeake Bay
Submerged Aquatic Vegetation

1. Anderson, R.R. 1966. Plant ecology of the upper Patuxent River estuary with special reference to the effect of thermal pollution on macrophytes. Ph.D. thesis. U. Md. 99 pp.

   The effects of temperature changes due to effluent from the Potomac Electric Power Company's Chalk Point generating plant were studied from June 1963 to June 1966. *Ruppia maritima* was found to have declined around the effluent canal and *Potamogeton perfoliatus* increased in coverage in the same area.

2. Anderson, R.R. 1969. Temperature and rooted aquatic plants. Ches. Sci. 10(3&4):157-164.

   The effects of temperature on respiration and photosynthesis of aquatic plants were studied using a Gilson differential respirometer. An historical review of research and present research by the author is presented.

3. Anderson, R.R. 1970. The submerged vegetation of Chincoteague Bay. Pages 136-155 In Assateague ecological studies. NRI, U. Md. No.446.

   Hydrophytes are important to the marine environment because of their soil binding roots, foliage which provides food and shelter for marine fauna, etc. In the Chincoteague Bay area, *Zostera marina* (eelgrass) and *Ruppia maritima*(widgeon grass) are the two dominant submerged aquatic species. A two-year study was conducted with emphasis on (1) type and distribution and (2) evaluation of primary production of species. Recommendations are presented for future dredging operations.

4. Anderson, R.R. 1972. Submerged vascular plants of the Chesapeake Bay and tributaries. Ches. Sci. 13(suppl):S87-S89.

   A generalized summation of the present knowledge of submerged aquatic plants of the Chesapeake Bay and its tributaries including taxonomy, distribution and abundance, biology, ecosystems and pollution.

5. Anderson, R.R., R.G. Brown and R.D. Rappleye. 1965. Mineral composition of Eurasian water milfoil, *Myriophyllum spicatum* L. Ches. Sci. 6(1):68-72.

   Material was collected from June 1962 to January 1963 to determine feasibility of milfoil use as a commercial fertilizer. Specimens were collected at water temperatures from 0.2 to 30.0°C, pH values from 5.8 to 9.5 and salinities from 1.07 to 16.4 ppt. Results indicate low N-P-K values that would not be economically feasible for commercial fertilizers.

6. Anderson, R.R., R.G. Brown and R.D. Rappleye. 1968. Water quality and plant distribution along the upper Patuxent River, Maryland. Ches. Sci. 9(3):145-156.

From June 1963 to June 1966, a study was made of the upper Patuxent River, Maryland, to determine the distribution of submerged and emergent aquatic vegetation. The boundary between fresh and saline water was found to be 0.3 ppt. Fluctuations over a 24-hour period reflected biological activity and tidal changes.

7. Anonymous. 1959. Chesapeake, stronghold of blue crab fishery. Nat. Fisherman. 40:13, 30-31.

Maryland supplies 2/3 of the entire U.S. blue crab harvest. The crab industry of Maryland culture including the types, methods of catching and the crab life cycle are briefly discussed.

8. Bayley, S., H. Rabin, and C.H. Southwick. 1968. Recent decline in the distribution and abundance of Eurasian milfoil in Chesapeake Bay. Ches. Sci. 9(3):173-181.

Eurasian water milfoil declined in 1965 to 1967 in Chesapeake Bay. Detailed mapping of milfoil occurrence was done in Middle, Back and Rhode Rivers in July and September of 1966 and 1967. The decline exceeded 95%, and was associated with Northeast Disease and Lake Venice Disease.

9. Bayley, S., V.D. Stotts, P. Springer and J. Steenis. In press. Changes in submerged aquatic macrophyte populations at the head of the Chesapeake Bay, 1958-1975.

Changes due to large inputs of nutrients and silts, man's influence, epidemics and waterfowl population fluctuations are discussed in relation to submerged aquatic vegetation at the head of the Chesapeake Bay. The biological wave phenomena is also considered.

10. Bean, G.A., M. Fusco, W.L. Klarman. 1973. Studies on the "Lake Venice Disease" of Eurasian milfoil in the Chesapeake Bay. Ches. Sci. 14(4):279-280.

Samples of healthy and diseased *Myriophyllum spicatum* were taken from the Rhode River in 1972 to determine the way in which the "Lake Venice Disease" was transmitted and the causal agent. It was shown that the disease was only transmitted under stress from low light intensity and direct inoculation.

11. Beaven, G.F. 1960. Temperature and salinity of surface water at Solomons, Maryland. Ches. Sci. 1(1):2-11.

Daily temperature and salinity values were averaged for a 20-year period, 1938-1957, and compared with other parts of the Chesapeake Bay. Water temperatures varied from 31° to 0.8°C. Seasonal means are: winter 4.3°, spring 11.9°, summer 25.6° and fall 18.2°. Extreme salinity values are 20.4 and 5.4 ppt. Seasonal means are: winter 14.8, spring 11.4, summer 12.3 and fall 15.7.

12. Beaven, G.F., C.K. Rawls and G.E. Beckett. 1962. Field observations upon estuarine animals exposed to 2,4-D. Pages 449-458 In Proc. 16th Northeast Weed Cont. Conf.

    A study to determine if 2,4-D used in the control of Eurasian water milfoil is lethal to oysters, crabs, clams and fish. From the data gathered, 2,4-D in attaclay pellets was found to be non-toxic to crabs, toxic in varying degrees to fish and a serious threat to oysters, clams and other bottom organisms.

13. Bellrose, F.C. 1976. Ducks, geese and swans of North America. Stackpole Books, Harrisburg, Pa. 543 pp.

    Waterfowl species identification, population status, distribution, breeding and food habits in North America subsequently defined species inhabitation and food sources of Chesapeake Bay.

14. Brady, D.K. 1976. Are the Chesapeake Bay waters warming up? Ches. Sci. 17(3):225-227.

    Water temperature records from various stations on the Chesapeake were correlated to determine the possibility of a warming trend. Because of insufficient data no definite trend was indicated. The periodic fluctuations seemed to be random.

15. Chamberlain, E.B., Jr. 1948. Ecological factors influencing the growth and the management of certain waterfowl food plants on Back Bay National Wildlife Refuge. Thirteenth North American Wildlife Conf. pp. 347-356.

    Since the early 20th century, waterfowl food plants on Back Bay National Wildlife Refuge have been studied. Factors influencing food plant production are salinity, hydrogen ion concentration, dissolved oxygen, water temperature and turbidity.

16. Clark, L.J., D.K. Donnelly and O. Villa, Jr. 1973. Nutrient enrichment and control requirements in the upper Chesapeake Bay. Summary and conclusions from forthcoming Tech. Rept. 56. EPA-903/9-73-002-a. 92 pp.

    Series of conclusions and graphically displayed supportive data relevant to the current eutrophication problem in the upper Chesapeake Bay. Phosphorus and nitrogen from the Susquehanna River Basin and the Baltimore metro area are determined as to maximum allowable loadings.

17. Clark, L.J., V. Guide and T.H. Pheiffer. 1974. Nutrient transport and accountability in the lower Susquehanna River Basin. Tech. Rept. 60. EPA-903/9-74-014. 91 pp.

One-year comprehensive nutrient study in the lower Susquehanna River Basin to determine: (1) average and seasonal variations in nitrogen and phosphorus loadings, (2) delineation of point and non-point source nutrient contributions, (3) fate of nutrients in impounded areas and (4) seasonal mass balance of nutrient loadings.

18. Correll, D.L., T-L Wu, J.W. Pierce and M.A. Faust, 1977. Rural non-point pollution studies in Maryland. EPA Report Number 904/9-77-001, 361 pp.

Sampling and measurement of herbicide concentrations, suspended sediments, bottom sediments, suspended sediment load, phytoplankton chlorophyll concentrations, salinity, and submerged, rooted aquatic plant populations was carried out in the estuarine waters of the Rhode River, Choptank River and near the Poplar Islands, Chesapeake Bay. Bottom sediment characteristics were observed. Land use studies were also performed.

19. Davis, J. ed. 1974. The effects of tropical storm Agnes on the Chesapeake Bay estuarine system. Rept. for U.S. Army Corps of Engineers, Baltimore. DACW 31-73-C-0189. CRC Publ. No. 34.

Analysis of the effects of Tropical Storm Agnes on the hydrology, geology, water quality, biology and economics of the Chesapeake Bay.

20. Elser, H.J. 1966. Status of aquatic weed problems in Tidewater Maryland, Spring, 1965. W. Va. Pulp Paper Chem. Div., Taste and Odor Control J. 32(8):1-6.

21. Haven, D.S. 1963. Mass treatments with 2,4-D of milfoil in tidal creeks in Virginia. Pages 345-350 In Proc. 16th Southern Weed Cont. Conf.

22. Jaworski, N.A., D.W. Lear, Jr. and O. Villa, Jr. 1972. Nutrient management in the Potomac estuary. Pages 246-269 In Proc. Sym. on Nutrients and Eutrophication.

Because of the discharge of untreated or partially treated wastewater in the upper Potomac estuary of Maryland, water quality has become degraded. Studies beginning in 1965 have led to the formulation of a nutrient management program for this area.

23. Kolessar, M.A. 1967. Aquatic plants in Maryland--a growing menace. Proc. Amer. Soc. of Civil Eng. 93(ww3):1-7.

Because of the increased population surrounding the Chesapeake Bay, the amount of pollutants entering the bay has increased. Some of the pollutants, such as herbicide run-off, add excessive nutrients. Plant populations, especially sea lettuce, water chestnuts and Eurasian water milfoil, have increased to a menacing level. Mechanical, chemical and biological control methods are discussed.

24. Lippson, A.J. ed. 1973. The Chesapeake Bay in Maryland: an atlas of natural resources. Johns Hopkins Univ. Press, Baltimore. 55 pp.

A detailed atlas of the ecological factors affecting the Chesapeake Bay and the marine organisms living in bay waters.

25. Manning, J.H. 1965. The Maryland soft shell clam industry and its effects on tidewater resources. Md. Dept. Research Ed., CBC Rept. No. 11, 25 pp.

A thorough report on the soft shell clam industry including dredging techniques, the history and use of the clam in Maryland and the effects of the hydraulic clam dredge on tidewater resources.

26. Marsh, G.A. 1970. A seasonal study of *Zostera* epibiota in the York River, Virginia. Ph.D. dissertation, College of William and Mary, 155 pp.

The invertebrate macrofauna and epiphytes occurring on *Zostera* in the lower York River, Virginia, were sampled with the aid of SCUBA for 14 consecutive months. A collecting station was located at each of three different depths within a single eelgrass bed. Growth patterns of *Zostera* are discussed.

27. Marsh, G.A. 1973. The *Zostera* epifaunal community in the York River, Virginia. Ches. Sci. 14(2):87-97.

A quantitative description of the species composition, community structure and seasonal changes in the *Zostera* epifauna in a single eelgrass bed in the lower York River, Virginia.

28. Marsh, G.A. 1976. Ecology of the gastropod epifauna of eelgrass in a Virginia estuary. Ches. Sci. 17:182-187.

Eelgrass provides a substrate for a highly diverse epibiotic community. Gastropods are the predominant faunal element. In the York River, Virginia, 10 species of prosobranch gastropods and 13 species of opisthobranch gastropods were found. The structure and species composition were studied.

29. Orth, R.J. 1971. Benthic infauna of eelgrass, *Zostera marina*, beds. M.S. Thesis, U. Va. 79 pp.

The *Zostera* beds in the Chesapeake Bay, York River estuary and Chincoteague Bay, were sampled in March and July to determine the abundance and diversity of the infauna. A total of 117 macroinvertebrate taxa were found and most beds, except at the upper estuary limits, were similar.

30. Orth, R.J. 1973. Benthic infauna of eelgrass, *Zostera marina*, beds. Ches. Sci. 14(4):258-269.

In 1970, 117 macroinvertebrate taxa were collected from core samples of *Zostera marina* from the Chesapeake Bay York River estuary and from Chincoteague Bay. Seasonal differences were noted. The samples taken were compared for faunal dominance, similarity, diversity and composition. The environmental conditions, with emphasis on salinity and sediments were sampled and compared.

31. Orth, R.J. 1975. The role of disturbance in an eelgrass, *Zostera marina*, community. Ph.D. thesis, U. Md.

Eelgrass beds in the Chesapeake Bay were studied to determine: (1) how eelgrass affects community structure of associated infauna, and (2) responses of infauna communities to different levels of natural and artificially induced disturbances.

32. Orth, R.J. 1975. Destruction of eelgrass, *Zostera marina*, by the cownose ray, *Rhinoptera bonasus*, in the Chesapeake Bay. Ches. Sci. 16(3):205-208.

The cownose ray, *Rhinoptera bonasus*, digs deeply into water bottoms to feed on the hard shelled molluscs. The destruction of *Zostera marina* beds is attributed to this digging which uproots this ecologically important marine plant.

33. Orth, R.J. 1976. The demise and recovery of eelgrass, *Zostera marina*, in the Chesapeake Bay, Virginia. Aquat. Bot. 2:141-159.

From 1971-1974 eelgrass, *Zostera marina*, L. declined 36%. Evidence indicating the loss was drawn from aerial photographs and ground truth reconnaissance. The decline is attributed to the cownose ray, human disturbance and a rise in water temperature.

34. Orth, R.J. 1977. The importance of sediment stability in seagrass communities. Pages 281-300 In B.C. Coull (ed.) Ecology of marine benthos. S. Carolina Press, Columbia.

Dense seagrass beds, such as *Zostera* in the Chesapeake Bay, stabilize sediments, promote diverse and abundant benthic fauna and protect fauna from predation from blue crabs.

35. Orth, R.J. In press. Effect of nutrient enrichment on the growth of eelgrass ,*Zostera marina*, in the Chesapeake Bay, Virginia. Mar. Biol.

By adding two commercial fertilizers, *Zostera marina* was shown to be nutrient limited, competitively exclusive of *Ruppia maritima* and growth related to sediment nutrient supply.

36. Orth, R.J. and H. Gordon. 1975. Remote sensing of submerged aquatic vegetation in the lower Chesapeake Bay, Virginia. Final report to National Aeronautics and Space Administration. Contract NASI-10720. 62 pp.

Experimental Kodak water penetration film and black and white near infrared film were used in studying the submerged aquatic vegetation of the lower Chesapeake Bay. Between 1971 and 1974, there was a 36% reduction in the amount of vegetation.

37. Philipp, O.C. and R.G. Brown. 1965. Ecological studies of transition zone vascular plants in South River, Maryland. Ches. Sci. 6(2): 73-81.

Two transition zone areas in the South River, Maryland were studied to determine the distribution of aquatic vascular plants. One area was near the mouth of the river and the other area was at the headwaters.

38. Rawls, C.K. 1965. Field tests of herbicide toxicity to certain estuarine animals. Ches. Sci. 6(3):150-161.

Because of infestations of Eurasian water milfoil in the Chesapeake Bay and its tributaries since 1959, herbicide control with 2,4-D was necessary. Caged blue crabs (*Callinectes sapidus*), eastern oysters (*Crassostrea virginica*), soft shell clams (*Mya arenaria*) and various species were field tested with 2,4-D formulations to determine toxicity levels.

39. Rawls, C.K. 1975. Mechanical control of Eurasian water milfoil in Maryland with and without 2,4-D application. Ches. Sci. 16(4):266-281.

Between the late 1950s and 1964, Eurasian water milfoil increased from a few thousand acres to 200,000 acres. Milfoil grows in a variety of environments and its uses are minimal compared to its negative aspects. The herbicide 2,4-D was found to be effective in controlling milfoil; however, the required dosages could adversely affect the surrounding aquatic life. Because of this danger, smaller applications of 2,4-D plus mowing was recommended.

40. Rawls, C.K. In press. Food habits of waterfowl in the upper Chesapeake Bay, Maryland. 138 pp.

Waterfowl gizzards representing 18 species of geese and ducks from the Chestertown area, Remington Farms and Colton Point were analyzed to determine the value of Eurasian water milfoil (*Myriophyllum spicatum*) as a food source. Out of 2,747 gizzards examined, over 78% of all food eaten was plant material.

41. Rawls, C.K. and G.F. Beaven. 1963. Abstract. Results of a 1962 field experiment subjecting certain estuarine animals to a 2,4-D ester. Pages 343-344 In Proc. 16th Southern Weed Conf.

42. Rawls, C.K. and P. McKee. 1964. Maryland's 1963 program for regulation and evaluation of 2,4-D applications. Pages 306-307 In Proc. 17th Ann. Southern Weed Conf. Jackson, Miss.

Due to increased Eurasian water milfoil infestations in the Chesapeake Bay and its estuaries, the Water Pollution Control Commission approved the use of 2,4-D treatments by individual applicants.

43. Shima, L.J., R.R. Anderson and V.P. Carter. 1976. The use of aerial color infrared photography in mapping the vegetation of a freshwater marsh.

Aerial color infrared photographs taken of a freshwater marsh on the Patuxent River in the spring and fall were correlated with field surveys taken at the same time. Color fluctuations indicated different species, growth and vigor of plants and environmental conditions.

44. Southwick, C.H. 1972. Tentative outline for inventory of aquatic vegetation: *Myriophyllum spicatum* (Eurasian water milfoil). Ches. Sci. 13(suppl):S174-S176.

A brief outline for the future inventory of *Myriophyllum spicatum* emphasizing the description of the species and its ecological habitat.

45. Southwick, C.H. and F.W. Pine. 1975. Abundance of submerged vascular vegetation in the Rhode River from 1966 to 1973. Ches. Sci. 16(1):147-151.

Surveys on the distribution of redhead grass (*Potamogeton perfoliatus*), Eurasian water milfoil (*Myriophyllum spicatum*), widgeon grass (*Ruppia maritima*), horned pondweed (*Zannichellia palustris*), sago pondweed (*Potamogeton pectinatus*), and elodea (*Elodea canadensis*) show irregular declines, disappearances and changes in species dominance from 1966 to 1973.

46. Steenis, J.H., E.W. Ball, V.D. Stotts and C.K. Rawls. 1967. Pest plant control with herbicides. Pages 140-148 In Proc. of the Marsh and Estuary Mgmt. Symp. L.S.U., Baton Rouge.

Herbicides are used in the marine environment to modify plant composition and density for improvement and preservation of the estuarine habitat. Because of the possible effects of the addition of herbicides, they should be screened for the development of control procedures. Their characteristics should be more clearly defined and application rates should be checked.

47. Steenis, J.H. and V.D. Stotts. 1961. Progress report on control of Eurasian water milfoil in Chesapeake Bay. Pages 566-570 In Proc. 15th Ann. Meeting, Northeastern Weed Control Conf., N.Y.

Due to the rapid infestation of Eurasian water milfoil in Chesapeake Bay, silvex and 2,4-D herbicides have been used for control. Studies were conducted to determine how to apply these herbicides in tidal situations without detrimental effects to other marine life.

48. Steenis, J.H. and V.D. Stotts. 1963. Abstract. Progress report on distribution and control of Eurasian water milfoil in the Chesapeake Bay region, 1962. Pages 341-342 In Proc. 16th Southern Weed Conf.

49. Steenis, J.H. and V.D. Stotts. 1965. Tidal dispersal of herbicides for controlling Eurasian water milfoil in the Chesapeake Bay. Pages 507-511 In Proc. 18th Ann. Meeting Southern Weed Conf., Dallas, Texas.

Because Eurasian water milfoil has become a national weed problem, more effective tidal dispersal control is necessary. 2,4-D, currently widely used, is effective. Paraquat and particularly diquat are excellent tidal dispersers, but they are less well understood than 2,4-D.

50. Steenis, J.H., V.D. Stotts and C.R. Gillette. 1962. Observations on distribution and control of Eurasian water milfoil in Chesapeake Bay, 1961. Pages 442-448 In Proc. 16th Ann. Meeting Northeastern Weed Cont. Conf.

Eurasian water milfoil is an adaptable aquatic plant, growing in both fresh and saline waters. Boat surveys were made to determine the extent of infestation. Control of the plant was tested with 2,4-D.

51. Steenis, J.H., V.D. Stotts, D.S. Haven and A.A. Whipp. 1964. Abstract. Developments on control of Eurasian water milfoil in the Chesapeake Bay region, 1963. Pages 321-323 In Proc. 17th Southern Weed Conf.

Although 2,4-D can be used effectively to control the spread of Eurasian water milfoil, the period of application is limited to the last ten days of May and the first week of June in the Chesapeake Bay. Lengthening application period and using water movement for dispersal were considered.

52. Stevenson, J.C. Unpublished. Summary of available information on Chesapeake Bay submerged vegetation. 471 pp.

A comprehensive summation of Chesapeake Bay submerged vegetation including taxonomy, distribution and abundance, biology, interspecific relationships, historical trends, assessment of environmental factors and management options.

53. Stewart, R.E. 1962. Waterfowl populations in the upper Chesapeake region. U.S. Fish and Wild Serv., Spec. Sci. Rept., Wild. No. 65. 207 pp.

Annual and seasonal variations in the numbers and kinds of waterfowl in 13 major habitat regions of the upper Chesapeake Bay are accounted for from 1953 to 1958. Data from U.S. Bureau of Sport Fisheries and Wildlife aerial waterfowl population counts, observations of breeding, migration, and the gullet and gizzard content analyses of 1,240 specimens defines 15 biogeographic areas.

54. U.S. Army Corps of Engineers, Baltimore District. 1974. Chesapeake Bay, existing conditions report. Vol. 1-7.

Comprehensive investigation of Chesapeake Bay resources for baseline data on present status.

Index to the Bibliography
# of Chesapeake Bay
Submerged Aquatic Vegetation

2, 4-D
    12, 21, 38, 39, 41, 42, 47, 49, 50, 51.
    see also: herbicides.

abundance
    see: count.

aquatic fauna
    7, 12, 24, 25, 32, 33, 34, 38, 39, 41, 47, 52.
    see also: epifauna, infauna.

aquatic plants
    see: vegetation.

aquatic weeds
    20, 23, 49.
    see also: vegetation.

atlas of natural resources
    24, 52, 54.

Back Bay National Wildlife Refuge
    15.

Back River
    8.

Baltimore
    16.

benefits of *Myriophyllum spicatum*
    5, 40.
    see also: *Myriophyllum spicatum*.

benefits of *Zostera marina*
    26, 27, 28, 29, 30, 31, 34.
    see also: *Zostera marina*.

biological control
    23.
    see also: control.

biological wave
    9.

Ceratophyllum demersum
    52.
    see also: submerged aquatic vegetation.

Chara
52.

chemical control
12, 21, 23, 38, 39, 42, 46, 47, 49, 50, 51.
see also: herbicides.

Chincoteague Bay
3, 29, 30.

Choptank River
18.

control of *Myriophyllum spicatum*
12, 21, 23, 38, 39, 42, 47, 48, 49, 50, 51.
see also: herbicides. *Myriophyllum spicatum*.

coontail
see: *Ceratophyllum demersum*.

count of *Myriophyllum spicatum*
8, 23, 42, 44, 45, 52.
see also: count of vegetation. *Myriophyllum spicatum*.

count of vegetation
4, 9, 43, 52.
see also: count of *Myriophyllum spicatum*. vegetation.

diquat
49.
see also: herbicides.

disease
see: Lake Venice Disease. Northeast Disease.

dissolved oxygen
15.
see also: physical factors.

distribution of *Myriophyllum spicatum*
8, 44, 45, 48, 50, 52.
see also: distribution of vegetation. *Myriophyllum spicatum*.

distribution of vegetation
3, 4, 6, 9, 37, 43, 52.
see also: distribution of *Myriophyllum spicatum*. vegetation.

dredging
3, 25.
see also: geology.

ecology
see: water quality.

economics
7, 19.

eelgrass
see: *Zostera marina*.

elodea
see: *Elodea canadensis*.

Elodea canadensis
24, 45, 52.
see also: submerged aquatic vegetation.

emergent aquatic vegetation
6.
see also: vegetation.

epidemics
9.
see also: disease.

epifauna
26, 27, 28.
see also: aquatic fauna.

epiphyte
26.
see also: vegetation.

erosion control
3, 34.
see also: geology.

Eurasian water milfoil
see: *Myriophyllum spicatum*.

eutrophication
16.
see also: nutrients.

fertilizer
5.
see also: benefits of *Myriophyllum spicatum*.

food plants
9, 13, 15, 40, 53.
see also: vegetation. waterfowl.

geology
3, 9, 15, 18, 19, 24, 25, 30, 34, 35.

growth of vegetation
15, 23, 43, 52.
see also: growth of *Zostera marina*. vegetation.

growth of *Zostera marina*
3, 26, 33, 35, 52.
see also: growth of vegetation. *Zostera marina.*

herbicides
18, 23, 46, 52.
see also: 2, 4-D. diquat. paraquat. silvex.

horned pondweed
see: *Zannichellia palustris.*

hornwart
see: *Ceratophyllum demersum*

hurricanes
19.

hydrology
see: water quality.

infauna
29, 30, 31.
see also: aquatic fauna.

interspecific relationships
see: aquatic fauna. epiphyte. waterfowl.

Lake Venice Disease
8, 10.
see also: Northeast Disease.

man's influence
9, 23, 25, 33, 35.
see also: dredging. herbicides. mowing. pollution. power plants.

mapping
8, 9, 24, 36, 43, 52.
see also: distribution. photographs. submerged aquatic vegetation. vegetation.

marsh vegetation
see: vegetation.

mechanical control
23, 39.
see also: control. mowing.

Middle River
8.

milfoil
see: *Myriophyllum spicatum.*

mineral composition
    see: fertilizer.

mortality of *Myriophyllum spicatum*
    8, 9, 10, 45.
    see also: *Myriophyllum spicatum*.

mortality of *Zostera marina*
    32, 33.
    see also: *Zostera marina*.

mowing
    see: control.

muskgrass
    see: *Chara*.

Myriophyllum spicatum
    24, 44, 52.
    see also: benefits. control. count. distribution. mortality. submerged aquatic vegetation.

Nitella
    52.

nitrogen
    5, 16, 17.
    see also: nutrients.

Northeast Disease
    8.
    see also: Lake Venice Disease.

nutrients
    9, 16, 17, 22, 23, 35.
    see also: eutrophication. nitrogen. phosphorus. potassium.

paraquat
    49.
    see also: herbicides.

Patuxent River
    1, 6, 43.

pH
    5, 15.
    see also: physical factors.

phosphorus
    5, 16, 17.
    see also: nutrients.

photographs
    33, 36, 43.

photosynthesis
    see: vegetation.

physical factors
    see: dissolved oxygen. pH. salinity. temperature.

pollution
    4, 9, 22, 23.
    see also: water quality.

Poplar Islands
    18.

Potamogeton pectinatus
    24, 45, 52.
    see also: submerged aquatic vegetation.

Potamogeton perfoliatus
    1, 24, 45, 52.
    see also: submerged aquatic vegetation.

potassium
    5.
    see also: nutrients.

Potomac River
    22.

power plants
    1.
    see also: water quality.

primary production
    3, 15, 35.
    see also: growth of *Zostera marina*. vegetation.

protection of fauna
    see: benefits of *Zostera marina*.

ray
    see: mortality of *Zostera marina*.

redhead grass
    see: *Potamogeton perfoliatus*.

respiration
    see: vegetation.

review articles
    2, 4, 24, 52, 54.

Rhode River
    8, 10, 18, 45.

Ruppia maritima
    1, 3, 24, 35, 45, 52.
    see also: submerged aquatic vegetation.

sago pondweed
    see: *Potamogeton pectinatus.*

salinity
    5, 6, 11, 15, 18, 24, 30
    see also: physical factors.

sea lettuce
    see: *Ulva lactuca.*

sediment
    9, 18, 24, 30, 34.
    see also: geology.

silvex
    47.
    see also: herbicides.

soil binding
    see: erosion control.

Solomons, Maryland
    11.

South River
    37.

stress
    10.
    see also: mortality of *Myriophyllum spicatum.*

submerged aquatic vegetation
    3, 4, 6, 9, 18, 24, 36, 52.
    see also: *Ceratophyllum demersum. Elodea canadensis. Myriophyllum spicatum. Potamogeton pectinatus. Potamogen perfoliatus. Ruppia maritima. Trapa natans. Vallisneria americana. Zannichellia palustris. Zostera marina.*

Susquehanna River
    16, 17.

taxonomy
    3, 4, 44, 52.

temperature
    1, 2, 5, 11, 14, 15, 33.
    see also: physical factors.

thermal pollution
see: temperature.

Tidewater, Maryland
20.

Tolypellas
52.

toxicity
see: herbicides.

Trapa natans
23, 24.
see also: submerged aquatic vegetation.

turbidity
15, 18, 30, 34.
see also: geology.

Ulva lactuca
23.

U. S. Army Corps of Engineers
54.

Vallisneria americana
52.
see also: submerged aquatic vegetation.

vascular plants
4, 37, 45, 52.
see also: submerged aquatic vegetation. vegetation.

vegetation
1, 2, 6, 13, 15, 20, 23, 24, 26, 37, 39, 43, 46, 47, 52.
see also: aquatic weeds. epiphyte. submerged aquatic vegetation. vegetation. *Ulva lactuca*.

water chestnut
see: *Trapa natans*.

waterfowl
9, 13, 15, 40, 53.
see also: interspecific relationships.

water milfoil
see: *Myriophyllum spicatum*.

water quality
1, 4, 6, 18, 19, 22, 23, 37, 52.
see also: dissolved oxygen. geology. herbicides. man's influence. nutrients. pH. pollution. power plants. salinity. temperature.

waterweed
see: *Elodea canadensis.*

weeds
see: aquatic weeds.

widgeon grass
see: *Ruppia maritima.*

wild celery
see: *Vallisneria americana.*

York River
26, 27, 28, 29, 30.

Zannichellia palustris
24, 45, 52.
see also: submerged aquatic vegetation.

Zostera marina
3, 24, 31, 33, 52.
see also: benefits. growth. mortality. submerged aquatic vegetation.

ANNEX III

Data Files of the Chesapeake Bay Submerged Aquatic Vegetation

Contents

Part A Data Files of the Chesapeake Bay 3

Introduction 4

Section 1 Surveys and Studies 6
- 1 8
- 2 16
- 3 23
- 4 34
- 5 55
- 6 65

Section 2 Aerial Photographs. 91
- General 93
- Delaware. 96
- District of Columbia. 111
- Maryland
  - Shoreline. 134
  - Rivers 145
  - Cities 179
  - Oceanside. 183
  - Maryland-Virginia. 187
- North Carolina. 203
- Pennsylvania. 210
- Virginia
  - General. 212
  - Rivers 215
  - Bay. 237
  - Oceanside. 246

Section 3 New Files 258
- 1 260
- 2 271
- 3 273
- 4 276
- 6 279

Part B Index to the Data Files of Chesapeake Bay- Listed by Key Word 282

ANNEX III

Part A

Data Files

ENVIRONMENTAL DATA INDEX

THE ENCLOSED LISTING IS A SELECTION OF FILE DESCRIPTIONS FROM THE ENDEX SYSTEM. ITS PURPOSE IS TO GUIDE USERS WITH REQUIREMENTS FOR HISTORICAL ENVIRONMENTAL DATA TO HOLDERS OF THESE DATA.

THIS OUTPUT WAS SELECTED FROM THE ENTIRE FILE BASED ON CERTAIN CRITERIA SPECIFIED BY THE USER. THESE CRITERIA ARE REPEATED BELOW:

EDBD

THE OUTPUT IS IN TWO PARTS. FIRST IS A LISTING OF ALL THE EDBD'S SELECTED, PRINTED IN ID NUMBER ORDER. AT THE BACK OF EACH OUTPUT MAY BE A CROSS-INDEX, LISTING SUCH THINGS AS WHICH FILE DESCRIPTIONS DESCRIBE DATA COLLECTED ON EACH PLATFORM TYPE, OR WHICH FILE DESCRIPTIONS HAVE DATA IN EACH GRID LOCATOR. THIS SECTION WILL VARY DEPENDING ON THE REQUIREMENTS OF THE USER. THE ID NUMBER IS IN THE UPPER LEFT CORNER OF EACH FILE DESCRIPTION. THE FOLLOWING IS AN EXPLANATION OF FIELDS ON EACH PAGE.

FILE NAME -- TOP CENTER OF PAGE. IDENTIFIED BY DATA HOLDER. ALSO, TIME RANGE OF DATA COLLECTION.

PROJECTS -- LIST OF PROJECTS UNDER WHICH DATA CONTAINED IN FILES MAY HAVE BEEN COLLECTED.

GENERAL GEOGRAPHIC AREA -- BEGINS WITH CONTINENT OR OCEAN IN WHICH DATA WERE COLLECTED AND DESCRIBES SMALLER AND SMALLER AREAS TO GIVE USER A GENERAL AREA OF DATA COLLECTION.

ABSTRACT -- CONTAINS GENERAL INFORMATION ABOUT WHY THE DATA WERE COLLECTED AND WHERE, METHODS OF ANALYSIS AND PERTINENT CONCLUSIONS.

DATA AVAILABILITY -- CONTAINS RESTRICTIONS ON DATA USE, IF BLANK IT MEANS THERE ARE NO KNOWN RESTRICTIONS.

PLATFORM TYPES -- LIST OF TYPES OF PLATFORMS (IF ANY) USED TO COLLECT DATA.

ARCHIVE MEDIA -- MEDIA ON WHICH DATA ARE STORED AND A ROUGH ESTIMATE OF THE SIZE OF THE FILE.

FUNDING -- ORGANIZATION FUNDING THE DATA COLLECTION (IF KNOWN).

INVENTORY -- WHEN DETAILED INFORMATION ON STATION LOCATIONS, COUNTS OF OBSERVATIONS/SAMPLES, ETC. ARE AVAILABLE, IT WILL BE DENOTED HERE.

PUBLICATIONS -- PUBLICATIONS RESULTING FROM THIS DATA SET (LIST IS SOMETIMES CONDENSED).

CONTACT -- NAME, ADDRESS AND PHONE NUMBER OF PERSON TO CONTACT TO OBTAIN FURTHER INFORMATION OR ACTUAL COPIES OF DATA.

GRID LOCATOR -- A SERIES OF NUMBERS USED TO MAKE GEOGRAPHIC RETRIEVAL POSSIBLE ON A COMPUTER. LATITUDE AND LONGITUDE ARE COMBINED INTO A SINGLE NUMBER. THE WORLD METEOROLOGICAL ORGANIZATION (WMO) CODE IS USED TO IDENTIFY AREAS WHERE DATA WERE COLLECTED. THIS MAY BE A 4,6,8, OR 10 DIGIT NUMBER DEPENDING ON WHETHER THE DATA HOLDER CHOSE TO IDENTIFY AREAS DOWN TO 10-DEGREE SQUARES OF LATITUDE AND LONGITUDE OR TO 1-DEGREE, 10-MINUTE, OR 1-MINUTE SQUARES.

FOR A 4-DIGIT GRID LOCATOR THE NUMBERS ARE AS FOLLOWS:

DIGIT 1 -- QUADRANT OF WORLD: 1=NE, 3=SE, 5=SW, 7=NW.
DIGIT 2 -- TENS DIGIT OF LATITUDE.
DIGITS 3/4 -- HUNDREDS AND TENS DIGITS OF LONGITUDE.

THUS 7408 WOULD BE THE 10-DEGREE SQUARE OF WHICH THE POINT 40N AND 080W IS THE LOWER RIGHT HAND CORNER.

FOR A SIX DIGIT NUBMER, DIGITS 5 AND 6 REPRESENT THE UNITS DIGITS OF LATITUDE AND LONGITUDE. THUS 740825 WOULD IDENTIFY THE 1-DEGREE SQUARE OF 42N AND 085W.

WITH AN 8-DIGIT NUMBER, 74082534 REPRESENTS THE SQUARE AT 42-DEGREES, 30-MINUTES NORTH AND 085-DEGREES, 40-MINUTES WEST, OR 10-MINUTE SQUARE.

THE SMALLEST AREA IDENTIFIED IN THE SYSTEM IS A 1-MINUTE SQUARE,
OR A 10-DIGIT GRID LOCATOR (E.G., 7408253415 IS 42-DEGRESS
31-MINUTES NORTH AND 085-DEGRESS, 45-MINUTES WEST).

PARAMETER IDENTIFICATION SECTION -- THIS PORTION OF THE FILE DESCRIPTION
CONTAINS A LIST OF PARAMETERS MEASURED, THE SPHERE IT WAS MEASURED
IN, THE METHODS USED AND THE UNITS OF MEASUREMENT. IN ADDITION,
SUCH INFORMATION AS THE NUMBER OF MEASUREMENTS OF EACH PARAMETER
AND THE FREQUENCY (IF REGULARLY SPACED) ARE REPORTED. A SPECIALIZED INDEX
VOCABULARY IS AVAILABLE DEFINING THE PARAMETER, SPHERE, AND METHOD TERMS
USED.

QUESTIONS CONCERNING THIS OUTPUT SHOULD BE RELAYED TO THE NODC
OCEANOGRAPHIC SERVICES BRANCH (202) 634-7500 OR TO THE DATA INDEX BRANCH
(202) 634-7298.

ANNEX III

Part A

Section 1

Surveys and Studies

Section 1 contains 35 files, 29 of which were initiated prior to January 1, 1973. These files are included because they are trend indicators and in some cases represent the only submerged aquatic vegetation study conducted in a particular location.

Each of these files was carefully examined for its data content and given an arbitrary numerical rating based on the following criteria:

"1" - 3 files; specific studies of submerged aquatic vegetation.

"2" - 3 files; general vegetation studies which include submerged aquatic vegetation.

"3" - 5 files; detailed observations of submerged aquatic vegetation found during faunal and bottom studies.

"4" - 8 files; general observations of submerged aquatic vegetation found during faunal studies.

"5" - 4 files; studies of marsh and intertidal areas where submerged aquatic vegetation may be sporadically noted.

"6" - 12 files; areas near the Chesapeake Bay including oceanside Maryland and Virginia, Delaware, and the northern coast of North Carolina.

ANNEX III

Part A

Section 1

"1"
Specific studies of submerged aquatic vegetation.

001281

AQUATIC VEGETATION OF THE RHODE RIVER

DATA COLLECTED: 1966 TO 1973

RECEIVED: SEPTEMBER 17, 1973

PROJECTS:
RHODE RIVER ESTUARY STUDY

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, RHODE RIVER, MIDDLE RIVER, BACK RIVER

ABSTRACT:

AQUATIC VEGETATION STUDY OF THE RHODE RIVER ESTUARY-BIOLOGIC AND ENVIRONMENTAL CONTROL OF EURASIAN MILFOIL. DISTRIBUTION, ABUNDANCE AND SOME STANDING CROP DATA ON: MYRIOPHYLLUM SPICATUM (EURASIAN MILFOIL); POTAMOGETON PERFOLIATUS (REDHEADED GRASS); POTAMOGETON PECTINATUS (SAGO PONDWEED); ZANNICHELLIA PALUSTRIS (HORNED PONDWEED); RUPPIA MARITIMA (WIDGEON GRASS); ELODEA CANADENSIS (ELODEA); VALLISINERIA AMERICANA(WILD CELERY). EVIDENCE OBTAINED OF VIRAL INFECTIONS AND SECONDARY BACTERIAL INFECTIONS IN DISEASED MILFOIL.
(QUARTERLY REPORTS FILED FROM 1968-1972 WITH DEPT NATURAL RESOURSES, MD AND BUREAU OF COMMERCIAL FISHERIES)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
STUDY FROM 1966-1973; 300 STATIONS; OBSERVED WEEKLY IN SUMMER

FUNDING:
PL 88-309 PROJECT, CONTRACT NO 3-56-R-1

INVENTORY:

PUBLICATIONS:
S BAYLEY, H RABIN, C H SOUTHWICK, 1968 RECENT DECLINE IN THE DISTRIBUTION AND ABUNDANCE OF EURASIAN MILFOIL IN CHESAPEAKE BAY, CHES SCI, V 9 (3): 173-181

CONTACT:
C H SOUTHWICK   301-955-3604
JOHNS HOPKINS UNIVERSITY, DEPT OF PATHOBIOLOGY
615 NORTH WOLFE STREET
BALTIMORE   MARYLAND USA 21205

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	300	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHL	300	STATIONS	FREQUENTLY THROUGHOUT JUNE-AUGUST PERIOD		
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	RELATIVE ABUNDANCE	2000	OBS	WEEKLY IN SUMMER	1 TO 4 FEET	SUBMERGED MACROPHYTES

AQUATIC VEGETATION OF THE RHODE RIVER (CONT.)

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF BENTHIC PLANTS	BOTTOM	BOTTOM RAKING	RELATIVE ABUNDANCE	2000 OBS	WEEKLY IN SUMMER	1 TO 4 FEET	SUBMERGED MACROPHYTES
SPECIES DETERMINATION OF BENTHIC PLANTS	BOTTOM	KEY	NAME	7 OBS	WEEKLY IN SUMMER	1 TO 4 FEET	SUBMERGED MACROPHYTES
BIOMASS OF BENTHIC PLANTS	BOTTOM	WET WEIGHT	GRAMS	7 OBS	WEEKLY IN SUMMER	1 TO 4 FEET	SUBMERGED MACROPHYTES
BIOMASS OF BENTHIC PLANTS	BOTTOM	DRY WEIGHT	GRAMS	7 OBS	WEEKLY IN SUMMER	1 TO 4 FEET	SUBMERGED MACROPHYTES
LIGHT INTENSITY	WATER	UPLOOKING PHOTOMETER	MICROAMPS	200 OBS	WEEKLY IN SUMMER	1 TO 4 FEET	
COUNT OF MICROBIOTA	WATER	VISUAL	COLONY COUNTS, TITERS	200 OBS	WEEKLY IN SUMMER	1 TO 4 FEET	BACTERIAL AND VIRAL INFECTION S OF MILFOIL

002444

PLANT ECOLOGY OF UPPER PATUXENT RIVER, EFFECTS OF THERMAL POLLUTION ON MACROPHYTES

DATA COLLECTED: JUNE 1963 TO JUNE 1966

RECEIVED: SEPTEMBER 04, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, PATUXENT RIVER, COASTAL

ABSTRACT:

DESCRIPTION OF MACROPHYTE DISTRIBUTION AND DENSITY IN THE PATUXENT RIVER, MARYLAND PRESENTED RELATIVE TO WATER CHEMISTRY. DATA INCLUDES PHYSICAL AND CHEMICAL PARAMETERS OF WATER, PLANT SPECIES AND ABUNDANCE, WEIGHTS OF PLANTS, AND COMMUNITY PARAMETERS. INTENT OF STUDY WAS DESCRIPTIVE BASELINE DATA AND EVALUATION OF THERMAL POLLUTION ON MACROPHYTES. A SERIES OF 18 STATIONS WERE SAMPLED THROUGHOUT THE STUDY PERIOD.
(PHD THESIS, R. R. ANDERSON, 1966, DEPARTMENT OF BOTANY)

DATA AVAILABILITY:
UNIVERSITY MICROFILMS

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
99 PAGES

FUNDING:
PEPCO - CHAULK POINT POWER STATION

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301 454 3011
MCKELDIN LIBRARY
UNIVERSITY OF MARYLAND
COLLEGE PARK MARYLAND USA 20742

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	648 STATIONS			
TIME	EARTH	STATION TIME	YMD	648 STATIONS			
SALINITY	WATER	CONDUCTIVITY	PPT	648 OBS	MONTHLY	SURFACE	
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	648 OBS	MONTHLY	SURFACE	
CALCIUM	WATER	EDTA TITRATION	PPM	14 OBS		SURFACE	AT SALT FRONT, VIA METHOD OF PRICE AND PRIDDY

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
MAGNESIUM	WATER	EDTA TITRATION	PPM	14 OBS		SURFACE	
SODIUM	WATER	FLAME SPECTROMETRY	PPM	14 OBS		SURFACE	BECKMAN UNIT
POTASSIUM	WATER	FLAME SPECTROMETRY	PPM	14 OBS		SURFACE	BECKMAN UNIT
PH	WATER	COLORIMETRY	PH UNITS	64 OBS		SURFACE	4 STATIONS, 24 HOUR STUDY
TOTAL ALKALINITY	WATER	TITRATION	PPM CACO3	64 OBS		SURFACE	4 STATIONS, 24 HOUR STUDY
DISSOLVED CARBON DIOXIDE GAS	WATER	TITRATION	PPM CO2	64 OBS		SURFACE	4 STATIONS, 24 HOUR STUDY
DISSOLVED OXYGEN GAS	WATER	TITRATION	PPM	64 OBS		SURFACE	MODIFIED WINKLER
COUNT OF BENTHIC PLANTS	LAND	VISUAL	NUMBER PER SAMPLE	150 OBS			LINE TRANSECTS QUADRAT, AND PLOTS; EMERGENT AND SUBMERGED STRATA
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	NUMBER PER SAMPLE	150 OBS			LINE TRANSECTS QUADRAT, AND PLOTS; EMERGENT AND SUBMERGED STRATA
SPECIES DETERMINATION OF BENTHIC PLANTS	LAND	KEY	SPECIES PER SAMPLE	150 OBS			LINE TRANSECTS QUADRAT, AND PLOTS; EMERGENT AND SUBMERGED STRATA
SPECIES DETERMINATION OF BENTHIC PLANTS	BOTTOM	KEY	SPECIES PER SAMPLE	150 OBS			LINE TRANSECTS QUADRAT, AND PLOTS; EMERGENT AND SUBMERGED STRATA
COMMUNITY STRUCTURE ANALYSIS	LAND	CALCULATED	PERCENT COMPOSITION, COMMUNITY TYPES	5 OBS			5 SELECTED STATIONS
COMMUNITY STRUCTURE ANALYSIS	BOTTOM	CALCULATED	PERCENT COMPOSITION, COMMUNITY TYPES	5 OBS			5 SELECTED STATIONS
BIOMASS OF BENTHIC PLANTS	LAND	DRY WEIGHT	GM PER SPECIES PER SQ METER	150 OBS			100 DEG C
BIOMASS OF BENTHIC PLANTS	LAND	CROPPING	GM PER SPECIES PER SQ METER	150 OBS			AIR DRY
BIOMASS OF BENTHIC PLANTS	BOTTOM	DRY WEIGHT	GM PER SPECIES PER SQ METER	150 OBS			100 DEG C

```
002444
                PLANT ECOLOGY OF UPPER PATUXENT RIVER, EFFECTS OF THERMAL POLLUTION ON  (CONT.)                PAGE 03
                                                    MACROPHYTES
      PARAMETER IDENTIFICATION SECTION:
 NAME             SPHERE         METHOD           UNITS            DATA AMOUNT        FREQUENCY      HEIGHT/DEPTH   REMARKS
 ................ .............. ................ ................ .................. .............. .............. ...............
 BIOMASS OF       BOTTOM         CROPPING         GM PER SPECIES   150      OBS                                     
  BENTHIC PLANTS                                   PER SQ METER                                                    AIR DRY
```

002434

ECOLOGICAL STUDY OF VASCULAR PLANTS IN SOUTH RIVER
DATA COLLECTED: JUNE 1962 TO OCTOBER 1962

RECEIVED: SEPTEMBER 04, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, MARYLAND, SOUTH RIVER, COASTAL

ABSTRACT:
BOTANICAL SURVEY OF VASCULAR PLANTS IN THE SOUTH RIVER, MARYLAND. DATA FILE INCLUDES WATER CHEMISTRY, BOTTOM TYPE, AND PLANTS. DETAILED ANALYSIS OF TRANSITION ZONE. 10 STATIONS SAMPLED WITH SOME 24 HOUR STATION DATA.
(MS THESIS, C. C. PHILIPP, 1963)

DATA AVAILABILITY:
INTERLIBRARY LOAN

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
55 PAGES

FUNDING:
UNIVERSITY OF MARYLAND

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301 454 3011
MCKELDIN LIBRARY
UNIVERSITY OF MARYLAND
COLLEGE PARK MARYLAND USA 20742

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	10 STATIONS			
TIME	EARTH	STATION TIME	YMDHL	10 STATIONS			
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	12 OBS		SURFACE	24 HOUR STATION 1 AUG
SALINITY	WATER	CONDUCTIVITY	PPT	25 OBS		SURFACE	
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	12 OBS		SURFACE	BECKMAN MODEL 180
CURRENT DIRECTION	WATER	DRIFT DEVICE	DEGREES	24 OBS			24 HOUR STATION 1 AUG
CURRENT SPEED	WATER	DRIFT DEVICE	FT/SEC	24 OBS			24 HOUR STATION 1 AUG
LIGHT EXTINCTION	WATER	RADIOMETER	PERCENT	48 OBS		6 INCH DEPTH	WHITNEY

```
     PARAMETER IDENTIFICATION SECTION:

NAME             SPHERE          METHOD             UNITS            DATA AMOUNT        FREQUENCY      HEIGHT/DEPTH   REMARKS
................ ............... .................. ................ .................. .............. .............. ...............

                                  LOWERING           INCIDENT                                                          PHOTOCELL
CALCIUM          WATER           FLAME SPECTROMETR  PPM              5         OBS
                                  Y
POTASSIUM        WATER           FLAME SPECTROMETR  PPM              5         OBS
                                  Y
SODIUM           WATER           FLAME SPECTROMETR  PPM              5         OBS
                                  Y
CHLORIDE         WATER           TITRATION          PPM              5         OBS
WATER LEVEL      WATER           VISUAL             INCHES           24        OBS      2 HOUR                        24 HOUR STATION
                                                                                          INTERVAL                      1 AUG
DEPTH            WATER           WIRE LENGTH        FEET             8         OBS                     BOTTOM
BOTTOM TYPE      BOTTOM          VISUAL             USCGS CLASSES    4         OBS
SPECIES          BOTTOM          KEY                SPECIES PER      4         OBS                                    TRANSECTS IN
 DETERMINATION                                       TRANSECT                                                          TWO AREAS
 OF BENTHIC
 PLANTS
COMMUNITY        BOTTOM          CALCULATED         PLANT POSITION   208       OBS                                    52 SPECIES OF
 STRUCTURE                                           RELATIVE TO                                                       PLANTS PLACED
 ANALYSIS                                            TIDE LEVEL                                                        IN ONE OF 4
                                                                                                                       ELEVATION
                                                                                                                       CATEGORIES
```

ANNEX III

Part A

Section 1

"2"
General vegetation studies which include
submerged aquatic vegetation.

007477

SPOILED WETLANDS RECOVERY STUDY
DATA COLLECTED: JANUARY 1972 TO PRESENT

RECEIVED: NOVEMBER 23, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, COASTAL PLAIN, U.S., MARYLAND, QUEEN ANN COUNTY

ABSTRACT:

A STUDY OF VEGETATIVE REHABITATION OF THREE DISTURBED MARSHES IN QUEEN ANN COUNTY, MARYLAND IS BEING CONDUCTED. ALL SUBMERGENT AND EMERGENT PLANTS TO 3 FOOT WATER DEPTH AT THREE DISTURBED AREAS, AND 52 STATIONS PER DISTURBED AREA ARE BEING STUDIED. SAMPLES ARE TAKEN EARLY AND LATE SUMMER.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
ONE NOTEBOOK

FUNDING:
MD DEPT OF NATURAL RESOURCES

INVENTORY: .

PUBLICATIONS:

CONTACT:
JAMES R. GOLDBERRY, DIRECTOR 301 267 5195
MARYLAND WILDLIFE ADMINISTRATION, DEPARTMENT OF NATURAL RESOURCES
TAWES STATE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
7307960200

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	3 STATIONS			
TIME	EARTH	STATION TIME	YMD	3 STATIONS	TWICE/YEAR		
SPECIES DETERMINATION OF BENTHIC PLANTS	BOTTOM	KEY		3 STATIONS	TWICE/YEAR		
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	NUMBER/SPECIES AND RELATIVE DENSITY	3 STATIONS	TWICE/YEAR		
BOTTOM TYPE	BOTTOM	VISUAL		3 STATIONS	TWICE/YEAR		DESCRIPTION OF BOTTOM CHARACTER AS

```
      PARAMETER IDENTIFICATION SECTION:

NAME              SPHERE          METHOD            UNITS             DATA AMOUNT        FREQUENCY       HEIGHT/DEPTH    REMARKS
................. ............... ................. ................. .................. ............... ............... ................

                                                                                                                         FIRM OR MUCK
                                                                                                                         AND DEPTH OF
                                                                                                                         MUCK
```

007479

MARSH AND CREEK VEGETATION SURVEY
DATA COLLECTED: JULY 1975 TO PRESENT

PROJECTS:

RECEIVED: NOVEMBER 23, 1976

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, COASTAL PLAIN, U.S., MARYLAND, QUEEN ANN COUNTY

ABSTRACT:

A SURVEY OF THE MARSH AND CREEK VEGETATION OF QUEEN ANN COUNTY, BAY SIDE OF EASTERN SHORE, MARYLAND IS BEING CONDUCTED. ALL PLANTS FROM THE HIGH MARSH EMERGENT TO AQUATIC SUBMERGENT OF CREEKS FROM HEAD WATER TO MOUTH ARE NOTED. 7 MARSH TRANSECTS WITH 5 STATIONS EACH, AND 14 CREEK TRANSECTS WITH 6 STATIONS EACH ARE MEASURED.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
ONE NOTEBOOKS

FUNDING:
MD DEPT OF NATURAL RESOURCES

INVENTORY:

PUBLICATIONS:

CONTACT:

JAMES R. GOLDBERRY, DIRECTOR 301 267 5195
MARYLAND WILDLIFE ADMINISTRATION, DEPARTMENT OF NATURAL RESOURCES
TAWES STATE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
7307960200

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	11	STATIONS			
TIME	EARTH	STATION TIME	YMD	11	STATIONS			
SPECIES DETERMINATION OF BENTHIC PLANTS	LAND	KEY		11	STATIONS			
SPECIES DETERMINATION OF BENTHIC PLANTS	BOTTOM	KEY		11	STATIONS			
COUNT OF BENTHIC PLANTS	LAND	VISUAL	SPECIES ABUNDANCE AND	11	STATIONS			

```
007479
                                              MARSH AND CREEK VEGETATION SURVEY  (CONT.)
      PARAMETER IDENTIFICATION SECTION:                                                                              PAGE 02
NAME            SPHERE        METHOD           UNITS            DATA AMOUNT       FREQUENCY     HEIGHT/DEPTH  REMARKS
............... ............. ................ ................ ................. ............. ............. ..............

                                                RELATIVE
                                                ABUNDANCE
COUNT OF        BOTTOM        VISUAL           SPECIES          11      STATIONS
 BENTHIC PLANTS                                 ABUNDANCE AND
                                                RELATIVE
                                                ABUNDANCE
```

20

000149

SUSQUEHANNA FLATS VEGETATION SURVEY
DATA COLLECTED: OCTOBER 1957 TO PRESENT

RECEIVED: NOVEMBER 07, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND SUSQUEHANNA FLATS

ABSTRACT:

EXTENSIVE SURVEY OF VEGETATION PRESENT ON THE SUSQUEHANNA FLATS. DATA FROM 1957 TO PRESENT, INCLUDES DEPTH, SALINITY, SECCHI READING, PLANT SPECIES LISTS, PLANT RELATIVE ABUNDANCE, BENTHIC ANIMAL SPECIES LISTS. DATA BASE FOR WATERFOWL FORAGE AVAILABILITY. SEASONALITY OF VEGETATION. (PITTMAN-ROBERTSON PROJECT THROUGH BSFWL; MS SUSAN BAILEY AT UNIV FLORIDA IN GAINESVILLE IS ANALYZING DATA)

DATA AVAILABILITY:
COST OF DUPLICATION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
1.5 CUBIC FEET OF DATA SHEETS

FUNDING:

INVENTORY:

PUBLICATIONS:

2

CONTACT:
VERNON STOTTS 301-267-5195
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730795 730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	5625	STATIONS	3 TIMES PER YEAR		
TIME	EARTH	STATION TIME	YMDHML 5 MINUTE INTERVAL	5625	STATIONS	3 TIMES PER YEAR		
DEPTH	WATER	WIRE LENGTH	NEAREST HALF FOOT	5625	OBS	3 TIMES PER YEAR	BOTTOM	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	100	OBS	3 TIMES PER YEAR	SURFACE	TAKEN AT HARVE DE GRACE
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	INCHES	2800	OBS	3 TIMES PER YEAR		
SPECIES DETERMINATION	BOTTOM	KEY	NUMBER OF SPECIES PER	65000	OBS	3 TIMES PER YEAR	BOTTOM	14 INCH CULTIVATOR

```
000149                                  SUSQUEHANNA FLATS VEGETATION SURVEY  (CONT.)                                PAGE 02
      PARAMETER IDENTIFICATION SECTION:

NAME             SPHERE         METHOD            UNITS            DATA AMOUNT        FREQUENCY      HEIGHT/DEPTH   REMARKS
................ .............. ................. ................ .................. .............. .............. ...............

 OF BENTHIC                                        STATION, PER                                                      RAKE DRAGGED
 PLANTS                                            TRANSECT                                                          OVER AREA, 4
                                                                                                                     REPLICATE
                                                                                                                     DRAGS PER
                                                                                                                     STATION, 12
                                                                                                                     SPECIES OF
                                                                                                                     ROOTED AQUATIC
                                                                                                                     PLANTS AND
                                                                                                                     SEVERAL GENERA
                                                                                                                     OF ALGAE
SPECIES          BOTTOM         KEY               NUMBER OF        5625      OBS      3 TIMES PER    BOTTOM         SPONGES,
 DETERMINATION                                     SPECIES PER                         YEAR                          CORALS,
 OF BENTHIC                                        STATION, PER                                                      TUNICATES
 ANIMALS                                           TRANSECT
TAXONOMIC LIST   BOTTOM         KEY               GENERA PER       23000     OBS      3 TIMES PER    BOTTOM         ALGAE TO GENUS
 OF BENTHIC                                        STATION, PER                        YEAR
 PLANTS                                            TRANSECT
COUNT OF         BOTTOM         VISUAL            RELATIVE         65000     OBS      3 TIMES PER    BOTTOM         RANKED AS RARE,
 BENTHIC PLANTS                                    ABUNDANCE,                          YEAR                          OCCASIONAL,
                                                   AVERAGE INDEX                                                     COMMON,
                                                   PER STATION                                                       ABUNDANT PER
                                                   PER SPECIES                                                       SPECIES PER
                                                                                                                     DRAG
```

ANNEX III

Part A

Section 1

"3"

Detailed observations of submerged aquatic vegetation
found during faunal and bottom studies.

WOOD DUCK FLOAT CENSUS

DATA COLLECTED: JUNE 1962 TO PRESENT

RECEIVED: NOVEMBER 14, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, POTOMAC RIVER

ABSTRACT:

COUNTS AND SPECIES DETERMINATION OF WATERFOWL, REPTILES, MAMMALS, BIRDS, AND BENTHIC PLANTS HAVE BEEN MADE EACH JUNE SINCE 1962 ALONG A 180 MILE STRETCH OF THE POTOMAC RIVER. FISHING ACTIVITY IS ALSO NOTED. (OBSERVATIONS ARE MADE FROM TWO DRIFTING BOATS, TWO OBSERVERS IN EACH BOAT)

DATA AVAILABILITY:
COST OF DUPLICATION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
ONE FILE DRAWER OF DATA SHEETS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
VERNON STOTTS   301-267-5195
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS   MARYLAND USA 21401

GRID LOCATOR (LAT):
730798 730797 730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1 STATIONS	ONE PER YEAR		2 BOAT DRIFT 180 MILES DOWN THE POTOMAC RIVER, ONE NEAR EACH SHORE; STATION RUNS FROM MCCOOL TO GREAT FALLS
TIME	EARTH	STATION TIME	YMD	1 STATIONS	ONE PER YEAR		
SPECIES DETERMINATION OF BIRDS	AIR	KEY	NUMBER OF SPECIES	1 STATIONS	ONE PER YEAR		TALLIED ALL WOOD DUCKS, WATERFOWL AND

000163

WOOD DUCK FLOAT CENSUS (CONT.)

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF BIRDS	AIR	VISUAL	NUMBER OF INDIVIDUALS	1 STATIONS	ONE PER YEAR		OTHER BIRDS THAT WERE SIGHTED TALLIED ALL WOOD DUCKS, WATERFOWL AND OTHER BIRDS THAT WERE SIGHTED
COUNT OF REPTILES	WATER	VISUAL	NUMBER OF INDIVIDUALS PER SPECIES	1 STATIONS	ONE PER YEAR		ALL THAT WERE SIGHTED
COUNT OF MAMMALS	WATER	VISUAL	NUMBER OF INDIVIDUALS	1 STATIONS	ONE PER YEAR		ALL THAT WERE SIGHTED
SPECIES DETERMINATION OF MAMMALS	WATER	KEY	NUMBER OF SPECIES	1 STATIONS	ONE PER YEAR		
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	RELATIVE ABUNDANCE	1 STATIONS	ONE PER YEAR		THOSE PLANTS IN THE RIVER
COUNT OF BENTHIC PLANTS	LAND	VISUAL	RELATIVE ABUNDANCE	1 STATIONS	ONE PER YEAR		THOSE PLANTS ON THE BANKS
SPORT FISHERIES ACTIVITIES	WATER	VISUAL	NUMBER OF INDIVIDUALS	1 STATIONS	ONE PER YEAR		CLASSIFIED AS TO FISHING FROM BOATS OR FROM BANKS

25

000862 SUBSTRATE STUDIES IN THE PATUXENT RIVER

DATA COLLECTED: JANUARY 1967 TO PRESENT

RECEIVED: JUNE 04, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:
SUBSTRATE STUDIES IN THE PATUXENT RIVER SINCE 1967. MEASUREMENTS OF BIOMASS, AND SPECIES DETERMINATION AND COUNTS OF PELAGIC ANIMALS AND BENTHIC PLANTS FROM MONTHLY SAMPLING.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
A REPORT OF 4 PARAMETERS, 2,800 OBSERVATIONS, AT 3 STATIONS.

FUNDING:

INVENTORY:

PUBLICATIONS:
REPORT SENT TO ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA

26

CONTACT:
DENNIS BURTON 301-274-3194
BENEDICT ESTUARINE LABORATORY
BENEDICT MARYLAND USA 20612

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	3	STATIONS			
TIME	EARTH	STATION TIME	YMDL	700	STATIONS	MONTHLY, QUARTERLY	BOTTOM	
COUNT OF PELAGIC ANIMALS	WATER	VISUAL	NUMBER OF INDIVIDUALS PER SQUARE METER	700	OBS	MONTHLY, QUARTERLY	BOTTOM	CONSIDERED FOULING ORGANISMS
SPECIES DETERMINATION OF PELAGIC ANIMALS	WATER	KEY	NUMBER OF INDIVIDUAL PER SPECIES PER SQUARE METER	700	OBS	MONTHLY, QUARTERLY	BOTTOM	CONSIDERED FOULING ORGANISMS
BIOMASS OF PELAGIC ANIMALS	WATER	ASH WEIGHT	GRAMS PER SQUARE METER	700	OBS	MONTHLY, QUARTERLY	BOTTOM	CONSIDERED FOULING ORGANISMS
COUNT OF	BOTTOM	VISUAL	NUMBER OF	700	OBS	MONTHLY,	BOTTOM	CONSIDERED

```
000862
                                          SUBSTRATE STUDIES IN THE PATUXENT RIVER  (CONT.)
     PARAMETER IDENTIFICATION SECTION:                                                                                PAGE 02
NAME            SPHERE        METHOD          UNITS           DATA AMOUNT       FREQUENCY      HEIGHT/DEPTH   REMARKS
............... ............. ............... ............... ................. .............. .............. ...............
BENTHIC PLANTS
                                               INDIVIDUALS                       QUARTERLY
                                               PER SQUARE                                                      FOULING
                                               METER                                                           ORGANISMS
```

000861

SUBSTRATE STUDIES ON THE POTOMAC RIVER
DATA COLLECTED: 1968 TO PRESENT

RECEIVED: JUNE 04, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, POTOMAC RIVER

ABSTRACT:

SUBSTRATE STUDIES ON THE POTOMAC RIVER SINCE 1968. MEASUREMENTS OF BIOMASS, SPECIES DETERMINATIONS, AND COUNTS OF PELAGIC ANIMALS AND COUNTSOF BENTHIC PLANTS FROM MONTHLY SAMPLING. (SPURIOUS DATA DUE TO STORMS)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
A REPORT OF 4 PARAMETERS, 4,400 OBSERVATIONS, AT 4 STATIONS.

FUNDING:

INVENTORY:

PUBLICATIONS:
REPORT TO ACADEMY OF NATURAL SCIENCE OF PHILADELPHIA

28

CONTACT:
DENNIS BURTON 301-274-3194
BENEDICT ESTUARINE LABORATORY
BENEDICT MARYLAND USA 20612

GRID LOCATOR (LAT):
730787 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	4	STATIONS	MONTHLY, QUARTERLY		
TIME	EARTH	STATION TIME	YMDL	1100	STATIONS	MONTHLY, QUARTERLY		
COUNT OF PELAGIC ANIMALS	WATER	VISUAL	NUMBER OF INDIVIDUALS PER SQUARE METER	1100	OBS	MONTHLY, QUARTERLY	SURFACE, BOTTOM, MID DEPTH	CONSIDERED FOULING ORGANISMS
SPECIES DETERMINATION OF PELAGIC ANIMALS	WATER	KEY	NUMBER OF INDIVIDUALS PER SPECIES PER SQUARE METER	1100	OBS	MONTHLY, QUARTERLY	SURFACE, BOTTOM, MID DEPTH	CONSIDERED FOULING ORGANISMS
BIOMASS OF	WATER	ASH WEIGHT	GRAMS PER	1100	OBS	MONTHLY,	SURFACE,	CONSIDERED

SUBSTRATE STUDIES ON THE POTOMAC RIVER (CONT.)

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PELAGIC ANIMALS			SQUARE METER			QUARTERLY	BOTTOM, MID DEPTH	FOULING ORGANISMS
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS PER SQUARE METER	1100	OBS	MONTHLY, QUARTERLY	SURFACE, BOTTOM, MID DEPTH	CONSIDERED FOULING ORGANISMS

```
000860
                                        SUBSTRATE STUDIES IN CHESAPEAKE BAY
                                  DATA COLLECTED:  1970 TO PRESENT
PROJECTS:
                                                                                           PAGE 01
                                                                        RECEIVED: JUNE 04, 1973
GENERAL GEOGRAPHIC AREA:
     U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, CALVERT CLIFFS

ABSTRACT:
     SUBSTRATE STUDIES IN THE CHESAPEAKE BAY, MD. SINCE 1970.  MEASUREMENTS OF COUNT, SPECIES DETERMINATION AND BIOMASS OF PELAGIC
     ANIMALS AND COUNTS OF BENTHIC PLANTS SAMPLED MONTHLY AT 4 STATIONS.
     (WOODEN 4X6" PANELS SET UP AT FOUR STATIONS, SAMPLED MONTHLY AND QUARTERLY )
DATA AVAILABILITY:

PLATFORM TYPES:
     SHIP

ARCHIVE MEDIA:
     REPORTS
     A REPORT OF 4 PARAMETERS, 4800 OBSERVATIONS, AT 4 STATIONS.

FUNDING:

INVENTORY:

PUBLICATIONS:
     REPORT TO ACADEMY OF NATURAL SCIENCE OF PHILADELPHIA

CONTACT:
     DENNIS BURTON     301-274-3194
     BENEDICT ESTUARINE LABORATORY
     BENEDICT  MARYLAND USA  20612

GRID LOCATOR (LAT):
     730786

        PARAMETER IDENTIFICATION SECTION:

NAME            SPHERE          METHOD             UNITS              DATA AMOUNT          FREQUENCY       HEIGHT/DEPTH    REMARKS
............... ............... .................. .................. .................... ............... ............... ...............
POSITION        EARTH           FIXED POINT        MAP LOCATION       4         STATIONS   MONTHLY,
                                                                                            QUARTERLY
TIME            EARTH           STATION TIME       YMDL               1200      STATIONS   MONTHLY,
                                                                                            QUARTERLY
COUNT OF        WATER           VISUAL             NUMBER OF          1200      OBS        MONTHLY,        SURFACE AND     CONSIDERED
 PELAGIC                                            INDIVIDUALS                             QUARTERLY       BOTTOM          FOULING
 ANIMALS                                            PER SQUARE                                                              ORGANISMS
                                                    METER
SPECIES         WATER           KEY                NUMBER OF          1200      OBS        MONTHLY,        SURFACE AND     CONSIDERED
 DETERMINATION                                      INDIVIDUALS                             QUARTERLY       BOTTOM          FOULING
 OF PELAGIC                                         PER SPECIES                                                             ORGANISMS
 ANIMALS                                            PER SQUARE
                                                    METER
BIOMASS OF      WATER           ASH WEIGHT         GRAMS PER          1200      OBS        MONTHLY,        SURFACE AND     CONSIDERED
```

```
000860                                  SUBSTRATE STUDIES IN CHESAPEAKE BAY  (CONT.)                                  PAGE 02
      PARAMETER IDENTIFICATION SECTION:

NAME             SPHERE         METHOD            UNITS            DATA AMOUNT        FREQUENCY      HEIGHT/DEPTH   REMARKS
................ .............. ................. ................ .................. .............. .............. ...............

 PELAGIC                                           SQUARE METER                         QUARTERLY       BOTTOM        FOULING
 ANIMALS                                                                                                               ORGANISMS
COUNT OF         BOTTOM         VISUAL            NUMBER OF        1200     OBS       MONTHLY,        SURFACE AND   CONSIDERED
 BENTHIC PLANTS                                    INDIVIDUALS                          QUARTERLY       BOTTOM        FOULING
                                                   PER SQUARE                                                          ORGANISMS
                                                   METER
```

002363

DISTRIBUTION AND FOOD HABITS OF SCIAENIDS IN THE YORK RIVER, VIRGINIA
DATA COLLECTED: MARCH 1972 TO MARCH 1974

RECEIVED: AUGUST 09, 1974

PROJECTS:
BIOLOGY AND SYSTEMATICS OF NORTHWEST ATLANTIC SCIAENIDS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, YORK RIVER, COASTAL

ABSTRACT:

INTENSIVE FIELD PROGRAM TO DESCRIBE THE DISTRIBUTION AND ABUNDANCE OF SCIAENID FISHES IN THE YORK RIVER, VIRGINIA. SIZE, NUMBERS, WEIGHT, FOOD HABITS DATA COLLECTED ON A MONTHLY SCHEDULE. ECOLOGICAL SELECTION OF HABITAT BY CYNOSCION, LEIOSTOMUS, MICROPOGON, BAIRDIELLA, MENTICIRRHUS AND OTHER SCIAENIDS TO BE DESCRIBED. (PHD RESEARCH UNDER J. A. MUSICK)

DATA AVAILABILITY:
IN THESIS, EXPECTED COMPLETION 1975

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
2 CUBIC FEET

FUNDING:
VIMS

INVENTORY:

PUBLICATIONS:

CONTACT:

LABBISH CHAO 804 642 2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	2760	STATIONS			
TIME	EARTH	STATION TIME	YMDHML	2760	STATIONS			
TEMPERATURE	AIR	MERCURY THERMOMETER	DEG C	2760	OBS	MONTHLY		
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	4520	OBS	MONTHLY	SURFACE AND BOTTOM	
DISSOLVED OXYGEN GAS	WATER	TITRATION	PPM	4520	OBS	MONTHLY	SURFACE AND BOTTOM	
SALINITY	WATER	TITRATION	PARTS PER THOUSAND	4520	OBS	MONTHLY	SURFACE AND BOTTOM	
BOTTOM TYPE	BOTTOM	VISUAL	USCGS TYPES	2760	OBS	MONTHLY		

```
      PARAMETER IDENTIFICATION SECTION:

NAME             SPHERE         METHOD            UNITS            DATA AMOUNT         FREQUENCY     HEIGHT/DEPTH  REMARKS
................ .............. ................. ................ ................... ............. ............. ........,........
SPECIES          WATER          KEY               SPECIES PER      2760     OBS        MONTHLY       BOTTOM        16 FT SEMIBALLOO
 DETERMINATION                                     STATION                                                          N TRAWL WITH 1/
 OF DEMERSAL                                                                                                        4 INCH COD
 FISH                                                                                                               LINER
COUNT OF         WATER          VISUAL            NUMBER PER       2760     OBS        MONTHLY       BOTTOM        16 FT SEMIBALLOO
 DEMERSAL FISH                                     SPECIES PER                                                      N TRAWL WITH 1/
                                                   STATION                                                          4 INCH COD
                                                                                                                    LINER
LENGTH OF        WATER          TOTAL LENGTH      MM               10000    OBS        MONTHLY                     UP TO 25
 DEMERSAL FISH                                                                                                      INDIVIDUALS
                                                                                                                    PER SPECIES
                                                                                                                    PER STATION
                                                                                                                    PER MONTH

BIOMASS OF       WATER          WET WEIGHT        KG PER SPECIES   2760     OBS        MONTHLY       BOTTOM
 DEMERSAL FISH                                     PER STATION
WEIGHT OF        WATER          WET WEIGHT        GRAMS            5000     OBS        MONTHLY                     JUVENILE
 DEMERSAL FISH                                                                                                      SCIAENIDS
LENGTH/WEIGHT    WATER          CALCULATED        EQUATION, SLOPE  25       OBS                                    SEASONALLY FOR
 RATIO IN                                                                                                           YOUNG SCIAENIDS
 DEMERSAL FISH
TAXONOMIC LIST   BOTTOM         KEY               GENERA PER       2760     OBS        MONTHLY       BOTTOM        ZOSTERA,
 OF BENTHIC                                        STATION                                                          RUPPIA, ULVA,
 PLANTS                                                                                                             AGARDIELLA,
                                                                                                                    GRACILLARIA
                                                                                                                    RECORDED IN A
                                                                                                                    RELATIVE
                                                                                                                    ABUNDANCE
                                                                                                                    SCALE
STOMACH CONTENT  WATER          VISUAL            VOLUME DISPLACEM 2900     OBS        MONTHLY                     EIGHT SPECIES
 ANALYSIS OF                                       ENT, NUMBER,                                                     OF SCIAENIDS,
 DEMERSAL FISH                                     DRY WEIGHT                                                       RELATE TO
                                                                                                                    FUNCTIONAL
                                                                                                                    OSTEOLOGY
```

33

ANNEX III

Part A

Section 1

"4"

General observations of submerged aquatic vegetation found during faunal studies.

001033

BENTHIC INFAUNA OF EELGRASS, ZOSTERA MARINA, BEDS
DATA COLLECTED: MARCH 1970 TO JULY 1970

RECEIVED: JULY 13, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, CHINCOTEAGUE BAY, VIRGINIA, YORK RIVER

ABSTRACT:

THE INFAUNA OF EELGRASS BEDS, ZOSTERA MARINA, WAS SAMPLED AND ANALYZED. IN RELATION TO COMMUNITY STRUCTURE. COMMUNITY STRUCTURE ANALYSIS INDICES INCLUDE DIVERSITY, EQUITABILITY, RICHNESS, DOMINANCE, SIMILARITY. SEDIMENT TYPE WAS RELATED TO THE DENSITY OF ZOSTERA.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
117 MACROINVERTEBRATE TAXA COLLECTED AT 6 STATIONS, 110 BENTHIC SAMPLES PROCESSED

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS THESIS 1971, R J ORTH

CONTACT:
LIBRARIAN 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	6	STATIONS		1 METER BELOW MEAN LOW WATER	
TIME	EARTH	STATION TIME	YMDL	12	STATIONS		1 METER BELOW MEAN LOW WATER	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	12	OBS		SURFACE, MID DEPTH, BOTTOM	BECKMAN RS-7A INDUCTION SALINOMETER
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS PER STATION PER SAMPLING PERIOD	110	OBS		SURFACE, MID DEPTH, BOTTOM	10 REPLICATE SAMPLES AT EACH STATION AND SAMPLING PERIOD,

BENTHIC INFAUNA OF EELGRASS, ZOSTERA MARINA, BEDS (CONT.)

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF SPECIES PER STATION PER SAMPLING PERIOD, NUMBER OF INDIVIDUALS PER SPECIES	110 OBS		SURFACE, MID DEPTH, BOTTOM	PLEXIGLASS CORER 9.4 CM DIAM, 0.0069 M SQ, 15 CM LONG 10 REPLICATE SAMPLES AT EACH STATION AND SAMPLING PERIOD, PLEXIGLASS CORER 9.4 CM DIAM, 0.0069 M SQ, 15 CM LONG
SIZE ANALYSIS	SEDIMENT	SIEVE	PERCENT COMPOSITION PHI SIZE	110 OBS			
SIZE ANALYSIS	SEDIMENT	SETTLING/VISUAL	PERCENT COMPOSITION PHI SIZE	110 OBS			
COMMUNITY STRUCTURE ANALYSIS	BOTTOM	CALCULATED	NUMBERS	110 OBS			ANALYSIS INCLUDES INDEX OF DOMINANCE, DISPERSION, RICHNESS, EQUATIBILITY AND RANK ANALYSIS

36

000233

RESIDENT SPECIES OF ESTUARINE FINFISH
DATA COLLECTED: JUNE 1954 TO PRESENT

RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND

ABSTRACT:

LONG-TERM SEINE SURVEY IN MARYLAND TRIBUTARIES TO CHESAPEAKE BAY. MONITORING OF YEAR CLASS STRENGTH, SPECIES COMPOSITION, AND SEASONALITY OF FISHES. CONSISTENT DATA FILE FOR WHOLE PROJECT PERIOD IN POTOMAC, CHOPTANK, NANTICOKE, SUSQUEHANNA, WICOMICO, SASSAFRAS, ELK, NORTHEAST, AND BOHEMIA RIVERS. OTHER RIVERS INCLUDED BUT NOT FOR THE ENTIRE TIME FRAME WERE CHESTER, PATUXENT, MANOKIN, BIG ANNEMESSEX, POCOMOKE, BLACKWATER, TRANSQUAKING, CHICAMACOMICO, MILES, SOUTH, MAGOTHY, PATAPSCO, BACK, AND MIDDLE RIVERS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:
DATA SHEETS
25 3 INCH THICK NOTEBOOKS

FUNDING:

COST OF DUPLICATION 1954 THROUGH 1963 SUPPORTED UNDER MARYLAND DINGELL-JOHNSON PROJECT AS F3 R11 AFTER 1963 SUPPORT FROM MD DNR D.J. PROJECT F27-R AFTER 1973

INVENTORY:

PUBLICATIONS:

CONTACT:

JOSEPH BOONE   301-267-5785
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS   MARYLAND USA 21401

GRID LOCATOR (LAT):
730785 730787 730795 730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	2000	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	2000	STATIONS			
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG F	2000	OBS	3 TIMES PER YEAR	1 FOOT DEPTH	
DEPTH	WATER	VISUAL	FEET	2000	OBS	3 TIMES PER YEAR	BOTTOM	GRADUATED STAFF
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	1000	OBS	3 TIMES PER YEAR	1 FOOT DEPTH	RECORDED EBB OR FLOOD TIDE
SALINITY	WATER	TITRATION	PARTS PER THOUSAND	1000	OBS	3 TIMES PER YEAR	1 FOOT DEPTH	RECORDED EBB OR FLOOD TIDE
BOTTOM TYPE	BOTTOM	VISUAL	SAND, MUD,	2000	OBS	3 TIMES PER	BOTTOM	

```
000233
                                                     RESIDENT SPECIES OF ESTUARINE FINFISH  (CONT.)
     PARAMETER IDENTIFICATION SECTION:                                                                                                    PAGE 02
NAME             SPHERE        METHOD            UNITS           DATA AMOUNT       FREQUENCY     HEIGHT/DEPTH  REMARKS
................ ............. ................. ............... ................. ............. ............. ................

VISIBILITY       WATER         VISUAL             GRAVEL, MIXED                     YEAR
                                                 FEET            2000     OBS      3 TIMES PER
                                                                                    YEAR
                                                                                                              DEPTH TO WHICH
                                                                                                               SHOES VISIBLE
                                                                                                               BY WEARER,
SPECIES          BOTTOM        KEY                                                                             APPROXIMATE
 DETERMINATION                                   NUMBER OF       2000     OBS      3 TIMES PER   BOTTOM        SECCHI DEPTH
 OF BENTHIC                                       SPECIES,                          YEAR                      SEPARATED
 PLANTS                                           ABUNDANCE PER                                                FLOATING AND
COUNT OF                                          SPECIES                                                      ROOTED GROUPS
 BENTHIC PLANTS  BOTTOM        VISUAL            RANK ABUNDANCE  2000     OBS      3 TIMES PER   BOTTOM
                                                                                    YEAR                      SEPARATED
WEATHER          AIR           VISUAL                                                                          FLOATING AND
                                                 CLEAR, CLOUDY,  2000     OBS      3 TIMES PER                 ROOTED GROUPS
WIND SPEED       AIR           VISUAL             RAIN, SNOW                        YEAR
                                                 KNOTS           2000     OBS      3 TIMES PER
SPECIES          WATER         KEY                                                  YEAR
 DETERMINATION                                   NUMBER PER      10       OBS      3 TIMES PER
 OF PELAGIC                                       STATION                           YEAR
 FISH                                                                                                         2 SEINE HAULS
                                                                                                               PER STATION,
                                                                                                               100 FT X 4 FT
                                                                                                               X 1/4 INCH
                                                                                                               SEINE,
                                                                                                               STANDARD
                                                                                                               SWINGLE TOW,
SPECIES          WATER         KEY                                                                             OVER 2000
 DETERMINATION                                   NUMBER PER      40       OBS      3 TIMES PER                 SEINE HAULS
 OF DEMERSAL                                      STATION                           YEAR                      2 SEINE HAULS
 FISH                                                                                                          PER STATION,
                                                                                                               100 FT X 4 FT
                                                                                                               X 1/4 INCH
                                                                                                               SEINE,
                                                                                                               STANDARD
                                                                                                               SWINGLE TOW,
COUNT OF         WATER         VISUAL                                                                          OVER 2000
 PELAGIC FISH                                    NUMBER PER      10       OBS      3 TIMES PER                 SEINE HAULS
                                                  SPECIES, TOTAL                    YEAR                      2 SEINE HAULS
                                                  NUMBER PER TOW                                               PER STATION,
                                                                                                               100 FT X 4 FT
                                                                                                               X 1/4 INCH
                                                                                                               SEINE,
                                                                                                               STANDARD
                                                                                                               SWINGLE TOW,
COUNT OF         WATER         VISUAL                                                                          OVER 2000
 DEMERSAL FISH                                   NUMBER PER      40       OBS      3 TIMES PER                 SEINE HAULS
                                                  SPECIES, TOTAL                    YEAR                      2 SEINE HAULS
                                                  NUMBER PER TOW                                               PER STATION,
                                                                                                               100 FT X 4 FT
                                                                                                               X 1/4 INCH
                                                                                                               SEINE,
                                                                                                               STANDARD
                                                                                                               SWINGLE TOW,
                                                                                                               OVER 2000
                                                                                                               SEINE HAULS
```

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
LENGTH OF DEMERSAL FISH	WATER	TOTAL LENGTH	MILLIMETERS, LENGTH FREQUENCY TABULAR-	5000 OBS	3 TIMES PER YEAR		MORONE SAXATILIS , ALL MEASURED, SOME DATA IN EARLY YEARS IS IN FORK LENGTH
LENGTH OF DEMERSAL FISH	WATER	TOTAL LENGTH	MILLIMETERS, LENGTH FREQUENCY TABULAR-	5000 OBS	3 TIMES PER YEAR		MORONE AMERICANA , SUBSAMPLE OF CATCH MEASURED, MOSTLY YOUNG OF YEAR
LENGTH OF DEMERSAL FISH	WATER	TOTAL LENGTH	LENGTH RANGE IN MILLIMETERS	5000 OBS	3 TIMES PER YEAR		ALL SPECIES EXCEPT STRIPED BASS AND WHITE PERCH
LENGTH OF PELAGIC FISH	WATER	TOTAL LENGTH	LENGTH RANGE IN MILLIMETERS	1000 OBS	3 TIMES PER YEAR		
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER TOW	2000 OBS	3 TIMES PER YEAR		CALLINECTES SAPIDUS, GRASS SHRIMP, CRANGON
COUNT OF PELAGIC ANIMALS	WATER	VISUAL	NUMBER PER TOW	2000 OBS	3 TIMES PER YEAR		CTENOPHORES, JELLYFISH
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER PER TOW	2000 OBS	3 TIMES PER YEAR		CALLINECTES SAPIDUS, GRASS SHRIMP, CRANGON
SPECIES DETERMINATION OF PELAGIC ANIMALS	WATER	KEY	NUMBER PER TOW	2000 OBS	3 TIMES PER YEAR		CTENOPHORES, JELLYFISH
LENGTH OF BENTHIC ANIMALS	BOTTOM	DIRECT	MILLIMETERS CARAPACE WIDTH	2000 OBS	3 TIMES PER YEAR		CALLINECTES SAPIDUS
AGE DATING OF DEMERSAL FISH	WATER	SCALES	YEARS	5000 OBS			ALL MORONE SAXATILIS
COUNT OF DEMERSAL FISH	WATER	VISUAL	INDEX OF ABUNDANCE AVERAGE NUMBER PER TOW WITHIN EACH RIVER SYSTEM	1000 OBS	1 VALUE PER YEAR		MORONE SAXATILIS , MORONE AMERICANA, LEIOSTOMUS XANTHURUS
COUNT OF PELAGIC FISH	WATER	VISUAL	INDEX OF ABUNDANCE AVERAGE NUMBER PER TOW WITHIN EACH RIVER SYSTEM	100 OBS	1 VALUE PER YEAR		ALOSA SAPIDISSIMA YOUNG OF YEAR

39

000245

THE COMPARATIVE ECOLOGY OF TWO SPECIES OF PIPE FISH IN THE YORK RIVER, VIRGINIA
DATA COLLECTED: APRIL 1971 TO MARCH 1972

RECEIVED: DECEMBER 05, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, COASTAL, YORK RIVER

ABSTRACT:

38 TRAWL AND SEINE STATIONS WERE SAMPLED FOR ONE YEAR ALONG THE YORK RIVER, VIRGINIA, TO DETERMINE THE ABUNDANCE, DISTRIBUTION, FOOD HABITS AND SPAWNING ACTIVITY OF TWO SPECIES OF PIPE FISH.

DATA AVAILABILITY:
M A THESIS LINDA PUSHEE MERCER

PLATFORM TYPES:
FIXED STATION; SHIP

ARCHIVE MEDIA:
REPORTS; PUNCHED CARDS; DATA SHEETS
SEVERAL NOTEBOOKS OF DATA SHEETS; ONE FILE BOX OF PUNCHED CARDS; UNPUBLISHED M A THESIS.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN   804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	38	STATIONS			25 TRAWL STATIONS, 5M SEMI-BALLOON OTTER TRAWL; 13 SEINE STATIONS, 91 METER BEACH SEINE
TIME	EARTH	STATION TIME	YMDH	417	OBS	MONTHLY		TRAWL FOR 12 MONTHS, SEINE FOR 9 MONTHS
COUNT OF DEMERSAL FISH	WATER	VISUAL	NUMBER OF INDIVIDUALS	417	OBS	MONTHLY		SYNGNATHUS SP ONLY
SPECIES DETERMINATION	WATER	KEY	NUMBER OF SPECIES	417	OBS	MONTHLY		SYNGNATHUS SP ONLY

```
      PARAMETER IDENTIFICATION SECTION:
NAME              SPHERE         METHOD             UNITS            DATA AMOUNT         FREQUENCY      HEIGHT/DEPTH   REMARKS
................  .............  .................  ...............  ..................  .............  .............  ...............

 OF DEMERSAL
 FISH
SALINITY          WATER          TITRATION          PARTS PER        417       OBS       MONTHLY         SURFACE
                                                     THOUSAND
DISSOLVED         WATER          TITRATION          MG PER LITER     417       OBS       MONTHLY         SURFACE
 OXYGEN GAS                                                                                                            SURFACE AND
TEMPERATURE       WATER          NON-REVERSING      DEG C            717       OBS       MONTHLY                        BOTTOM AT
                                  THERMOMETER                                                                           TRAWL STATIONS
                                                                                                                       SYNGNATHUS SP
LENGTH OF         WATER          TOTAL LENGTH       MILLIMETERS      417       OBS       MONTHLY                        ONLY
 DEMERSAL FISH                                                                                                         SYNGNATHUS SP
SEX DETERMINATIO  WATER          VISUAL             MALE OR FEMALE   417       OBS       MONTHLY                        ONLY
 N OF DEMERSAL
 FISH                                                                                                                  SYNGNATHUS SP
GONADAL           WATER          GROSS EXAMINATION  STAGE OF         417       OBS       MONTHLY                        ONLY
 DEVELOPMENT OF                                      DEVELOPMENT
 DEMERSAL FISH                                                                                                         SYNGNATHUS SP
STOMACH CONTENT   WATER          VISUAL             FOOD TYPE        417       OBS       TIME                           ONLY
 ANALYSIS OF
 DEMERSAL FISH                                                                                                         TRAWL STATIONS
SECCHI DISC       WATER          AVERAGE DEPTH      METERS           300       OBS       TIME                           ONLY
 DEPTH                                                                                                                 TRAWL STATIONS
WEATHER           AIR            VISUAL             TYPE             300       OBS       TIME                           ONLY; TIDAL
                                                                                                                        STAGE NOTED
                                                                                                                       SEINE STATIONS
BOTTOM TYPE       BOTTOM         VISUAL             TYPE             117       OBS       TIME                           ONLY
                                                                                                                       SEINE STATIONS
SPECIES           BOTTOM         KEY                NUMBER OF        117       OBS       TIME                           ONLY
 DETERMINATION                                       SPECIES
 OF BENTHIC
 PLANTS                                                                                                                SEINE STATIONS
SPECIES           BOTTOM         KEY                NUMBER OF        117       OBS       TIME                           ONLY
 DETERMINATION                                       SPECIES
 OF BENTHIC
 ANIMALS
```

000254 DISTRIBUTION AND ABUNDANCE OF FISHES IN 4 MARSH TYPES OF THE CHOPTANK RIVER
DATA COLLECTED: JUNE 1971 TO DECEMBER 1972 RECEIVED: JANUARY 01, 1976

PROJECTS:
FISH POPULATIONS AND WETLAND TYPES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, MARYLAND, COASTAL, CHOPTANK RIVER

ABSTRACT:
EXTENSIVE COLLECTION SERIES OF JUVENILE FISHES AND YOUNGER AGE GROUP FISHES UTILIZING VARIOUS MARSH TYPES IN THE CHOPTANK RIVER SYSTEM. LENGTH, WEIGHT, NUMBERS, SPECIES COMPOSITION AND BIOMASS DATA FOR DESCRIPTION OF FISH COMMUNITY. GROWTH DATA FOR ALOSID JUVENILES AND CALCULATED GROWTH DATA FOR WHITE PERCH, YELLOW PERCH, AND PUMPKINSEED SUNFISH. BIOLOGICAL INFORMATION RETRIEVABLE ACROSS ENVIRONMENTAL PARAMETERS FOR ANALYSIS OF DISTRIBUTION AND ASSOCIATIONS WITHIN COMMUNITY (TYPE 7,12,16, AND 17 MARSHES BY BSFW DEFINITION)

DATA AVAILABILITY:
COST OF DUPLICATION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL; REPORTS
1 REEL MAGNETIC TAPE

FUNDING:
BSFW BOSTON OFFICE DEPARTMENT OF INTERIOR AND MARYLAND DNR

INVENTORY:

PUBLICATIONS:
PROJECT COMPLETION REPORT FOR MARYLAND AFS 7 CONTRACT

CONTACT:
W.R. CARTER 301-267-5361
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730785 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	96	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	96	STATIONS			BIOLOGICAL DATA TAKEN IS SEARCHABLE AND RETRIEVABLE RELATIVE TO 33 ENVIRONMENTAL PARAMETERS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								WHICH WERE TAKEN IN THE STUDY AREA
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	NUMBER OF SPECIES PER STATION PER TOW, PER GEAR TYPE	96	OBS	MONTHLY		16 FOOT SEMIBALLOON TRAWL AND A 200 FOOT X 10 FOOT X 1/4 INCH BEACH SEINE
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER OF SPECIES PER STATION PER TOW, PER GEAR TYPE	96	OBS	MONTHLY		16 FOOT SEMIBALLOON TRAWL AND A 200 FOOT X 10 FOOT X 1/4 INCH BEACH SEINE
COUNT OF PELAGIC FISH	WATER	VISUAL	NUMBER PER SPECIES, NUMBER PER SPECIES PER TOW AND PER HECTARE	96	OBS	MONTHLY		
COUNT OF DEMERSAL FISH	WATER	VISUAL	NUMBER PER SPECIES, NUMBER PER SPECIES PER TOW AND PER HECTARE	96	OBS	MONTHLY		
WEIGHT OF PELAGIC FISH	WATER	WET WEIGHT	INDIVIDUAL WEIGHTS IN GRAMS FOR UP TO 500 FISH PER SPECIES PER STATION, AVERAGE WEIGHT OF 100 INDIVIDUALS, DATA BASE INCLUDES 42 SPECIES	96	OBS	MONTHLY		
WEIGHT OF DEMERSAL FISH	WATER	WET WEIGHT	INDIVIDUAL WEIGHTS IN GRAMS FOR UP TO 500 FISH PER SPECIES PER STATION, AVERAGE WEIGHT OF 100 INDIVIDUALS, DATA BASE INCLUDES 42 SPECIES	96	OBS	MONTHLY		

DISTRIBUTION AND ABUNDANCE OF FISHES IN 4 MARSH TYPES OF THE CHOPTANK RIVER (CONT.)

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
BIOMASS OF DEMERSAL FISH	WATER	WET WEIGHT	NUMBER AND WEIGHT PER HECTARE	96	OBS	MONTHLY		FOR EACH SPECIES AND FOR THE TOTAL POPULATION OF ALL SPECIES
BIOMASS OF PELAGIC FISH	WATER	WET WEIGHT	NUMBER AND WEIGHT PER HECTARE	96	OBS	MONTHLY		FOR EACH SPECIES AND FOR THE TOTAL POPULATION OF ALL SPECIES
LENGTH OF PELAGIC FISH	WATER	FORK LENGTH	MILLIMETERS, INDIVIDUAL AND MEAN LENGTH PER SPECIES PER STATION	96	OBS	MONTHLY		
LENGTH OF DEMERSAL FISH	WATER	FORK LENGTH	MILLIMETERS, INDIVIDUAL AND MEAN LENGTH PER SPECIES PER STATION	96	OBS	MONTHLY		125 EACH FOR WHITE PERCH, YELLOW PERCH, AND PUMPKIN SEED SUNFISH PER YEAR
AGE DATING OF DEMERSAL FISH	WATER	SCALES	YEARS	750	OBS			125 EACH FOR WHITE PERCH, YELLOW PERCH, AND PUMPKIN SEED SUNFISH PER YEAR
WEIGHT OF BENTHIC PLANTS	BOTTOM	WET WEIGHT	KILOGRAMS PER TOW	96	OBS			RECORDED FOR TRAWL AND BEACH SEINE TOWS

```
000250                 ESTIMATING SPECIES AND COMMUNITIES IN THE FISH POPULATION OF SUSQUEHANNA FLATS                    PAGE 01
                                                     NURSERY AREA
                                  DATA COLLECTED: JUNE 1968 TO NOVEMBER 1969                      RECEIVED: JANUARY 01, 1976
PROJECTS:
     FISH COMMUNITIES OF SUSQUEHANNA RIVER

GENERAL GEOGRAPHIC AREA:
     NORTH ATLANTIC, U.S., CHESAPEAKE BAY, MARYLAND, COASTAL, SUSQUEHANNA  FLATS

ABSTRACT:
     EXTENSIVE COLLECTIONS OF JUVENILE AND YOUNGER AGE GROUP FISHES UTILIZING THE SUSQUEHANNA FLATS AREA AS A FEEDING GROUND AND
     NURSERY AREA. LENGTH, WEIGHT, NUMBERS, SPECIES COMPOSITION AND BIOMASS DATA FOR FISH COMMUNITY DESCRIPTION. GROWTH DATA FOR
     JUVENILE ALEWIFE, BLUEBACK, AND AMERICAN SHAD, SCALE READINGS AND CALCULATED GROWTH FOR WHITE PERCH, YELLOW PERCH, AND
     PUMPKINSEED SUNFISH. INFORMATION CORRELATED TO AND RETRIEVABLE ACROSS 33 PARAMETERS OR RANGES WITHIN EACH PARAMETER OR
     COMBINATION.

DATA AVAILABILITY:
     COST OF DUPLICATION

PLATFORM TYPES:
     SHIP

ARCHIVE MEDIA:
     MAGNETIC TAPE DIGITAL; REPORTS
     1 MAGNETIC TAPE REEL

FUNDING:
     NMFS DEPARTMENT OF COMMERCE, BSFW DEPT INTERIOR, AND MARYLAND DNR
45
INVENTORY:

PUBLICATIONS:
     ANNUAL PROJECT PROGRESS REPORT, MD AFSC 1-2; PROJECT COMPLETION REPORT, MD AFSC 1.

CONTACT:
     W.R. CARTER    301-267-5361
     MARYLAND DEPARTMENT OF NATURAL RESOURCES
     TAWES STATE OFFICE BUILDING
     ANNAPOLIS   MARYLAND USA  21401

GRID LOCATOR (LAT):
     730795 730796

       PARAMETER IDENTIFICATION SECTION:

NAME             SPHERE         METHOD            UNITS             DATA AMOUNT         FREQUENCY      HEIGHT/DEPTH    REMARKS
................ .............. ................. ................. .................. .............. .............. ................
POSITION         EARTH          FIXED POINT       MAP               36       STATIONS                                  BIOLOGICAL DATA
                                                                                                                        RETRIEVABLE
                                                                                                                        AND SEARCHABLE
                                                                                                                        WITHIN RANGES
                                                                                                                        OF 33 OTHER
                                                                                                                        PARAMETERS
                                                                                                                        REPORT
     PARAMETER IDENTIFICATION SECTION:

NAME             SPHERE         METHOD            UNITS           DATA AMOUNT        FREQUENCY      HEIGHT/DEPTH   REMARKS
................ .............. ................. ............... .................. .............. .............. ................

                                                                                                                   INCLUDES 10 OF
                                                                                                                   THE PARAMETER
                                                                                                                   CORRELATIONS
TIME             EARTH          STATION TIME      YMDHL           36       STATIONS
SPECIES          WATER          KEY               NUMBER OF       36       OBS      2 WEEK                         16 FOOT
 DETERMINATION                                     SPECIES PER                       INTERVAL                       SEMIBALLOON
 OF PELAGIC                                        STATION PER                                                      TRAWL, SURFACE
 FISH                                              TOW, PER GEAR                                                    AND BOTTOM
                                                                                                                    TOWS AT EACH
                                                                                                                    STATION, ALSO
                                                                                                                    200 FOOT X 10
                                                                                                                    FOOT X 1/4
                                                                                                                    INCH BEACH
                                                                                                                    SEINE, DAY AND
                                                                                                                    NIGHT COMPARED
                                                                                                                    IN 1968
SPECIES          WATER          KEY               NUMBER OF       36       OBS      2 WEEK                         16 FOOT
 DETERMINATION                                     SPECIES PER                       INTERVAL                       SEMIBALLOON
 OF DEMERSAL                                       STATION PER                                                      TRAWL, SURFACE
 FISH                                              TOW, PER GEAR                                                    AND BOTTOM
                                                                                                                    TOWS AT EACH
                                                                                                                    STATION, ALSO
                                                                                                                    200 FOOT X 10
                                                                                                                    FOOT X 1/4
                                                                                                                    INCH BEACH
                                                                                                                    SEINE, DAY AND
                                                                                                                    NIGHT COMPARED
COUNT OF         WATER          VISUAL            NUMBER PER      36       OBS      2 WEEK                         IN 1968
 PELAGIC FISH                                      SPECIES,                          INTERVAL
                                                   NUMBER PER
                                                   SPECIES PER
                                                   TOW AND PER
                                                   HECTARE
COUNT OF         WATER          VISUAL            NUMBER PER      36       OBS      2 WEEK
 DEMERSAL FISH                                     SPECIES,                          INTERVAL
                                                   NUMBER PER
                                                   SPECIES PER
                                                   TOW AND PER
                                                   HECTARE
WEIGHT OF        WATER          WET WEIGHT        INDIVIDUAL      36       OBS      2 WEEK
 PELAGIC FISH                                      WEIGHTS IN                        INTERVAL
                                                   GRAMS FOR UP
                                                   TO 500
                                                   INDIVIDUALS
                                                   PER SPECIES
                                                   PER STATION,
                                                   AVERAGE WEIGHT
                                                   OF 100
                                                   INDIVIDUALS,
                                                   DATA ON 43
                                                   SPECIES
```

46

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
WEIGHT OF DEMERSAL FISH	WATER	WET WEIGHT	INDIVIDUAL WEIGHTS IN GRAMS FOR UP TO 500 INDIVIDUALS PER SPECIES PER STATION, AVERAGE WEIGHT OF 100 INDIVIDUALS, DATA ON 43 SPECIES	36 OBS	2 WEEK INTERVAL		
BIOMASS OF DEMERSAL FISH	WATER	WET WEIGHT	NUMBER AND WEIGHT PER HECTARE	36 OBS	2 WEEK INTERVAL		FOR EACH SPECIES AND FOR TOTAL POPULATION OF ALL SPECIES
BIOMASS OF PELAGIC FISH	WATER	WET WEIGHT	NUMBER AND WEIGHT PER HECTARE	36 OBS	2 WEEK INTERVAL		FOR EACH SPECIES AND FOR TOTAL POPULATION OF ALL SPECIES
LENGTH OF PELAGIC FISH	WATER	TOTAL LENGTH	MILLIMETERS, INDIVIDUAL AND MEAN LENGTH PER SPECIES PER STATION	36 OBS	2 WEEK INTERVAL		EMPIRICAL GROWTH CURVE FOR ALEWIFE, BLUEBACK AND AMERICAN SHAD, DEVELOPED FROM BEACH SEINE DATA, JUVENILE FISH
LENGTH OF DEMERSAL FISH	WATER	FORK LENGTH	MILLIMETERS, INDIVIDUAL AND MEAN LENGTH PER SPECIES PER STATION	36 OBS	2 WEEK INTERVAL		
COMMUNITY STRUCTURE ANALYSIS	WATER	CALCULATED	TROPHIC LEVEL BY WEIGHT AND NUMBER, DOMINANT FISHES BY WEIGHT AND NUMBER, DISTRIBUTION RELATED WITH MULTIPLE ENVIRONMENTAL FACTORS	36 OBS	2 WEEK INTERVAL		ANALYSIS BY COLLECTION AND BY SEASON
AGE DATING OF DEMERSAL FISH	WATER	SCALES	YEARS	375 OBS			125 EACH OF WHITE PERCH, YELLOW PERCH, AND PUMPKINSEED

47

```
000250             ESTIMATING SPECIES AND COMMUNITIES IN THE FISH POPULATION OF SUSQUEHANNA FLATS  (CONT.)          PAGE 04
                                                  NURSERY AREA

      PARAMETER IDENTIFICATION SECTION:

NAME              SPHERE          METHOD             UNITS              DATA AMOUNT          FREQUENCY      HEIGHT/DEPTH   REMARKS
................. ............... .................. .................. .................... .............. .............. ...............

                                                                                                                             SUNFISH
GONADAL           WATER           GROSS EXAMINATION  STAGES AND         200        OBS       2 WEEK                         MALE WHITE
 DEVELOPMENT OF                                       FREQUENCY PER                           INTERVAL                        PERCH,
 DEMERSAL FISH                                        STAGE PER                                                               SEASONAL
                                                      INTERVAL                                                                MATURATION
WEIGHT OF         BOTTOM          WET WEIGHT         KILOGRAMS PER      36         OBS       2 WEEK                         RECORDED FOR
 BENTHIC PLANTS                                       TOW                                     INTERVAL                        TRAWL AND
                                                                                                                              BEACH SEINE
                                                                                                                              TOWS
```

001597

TALBOT COUNTY, MARYLAND SHELLFISH SURVEY

DATA COLLECTED: JUNE 1963 TO AUGUST 1963

PAGE 01

RECEIVED: APRIL 15, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, TALBOT COUNTY, MARYLAND

ABSTRACT:
HYDRAULIC DREDGE SURVEY OF SHELLFISH BOTTOM IN TALBOT COUNTY, MARYLAND. ASSESSMENT OF SPECIES, ABUNDANCE, AND SIZE OF BENTHIC ANIMALS WITH EMPHASIS ON SOFT CLAM. POTENTIAL YIELD FIGURES GIVEN.
(CBL REFERENCE NUMBER 63-68)

DATA AVAILABILITY:
WRITTEN REQUEST

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
36 PAGE REPORT

FUNDING:
MARYLAND DEPARTMENT OF NATURAL RESOURCES

INVENTORY:

49

PUBLICATIONS:

CONTACT:
HAYES T. PFITZENMEYER   301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS' MARYLAND USA 20688

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	712	STATIONS			
TIME	EARTH	STATION TIME	YMD	712	STATIONS			
DEPTH	WATER	WIRE LENGTH	FEET	712	OBS		BOTTOM	
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	SPECIES PER STATION	712	OBS			30 SQ FT SAMPLE WITH HYDRAULIC DREDGE
TAXONOMIC LIST OF BENTHIC ANIMALS	BOTTOM	KEY	GENERA PER STATION	712	OBS			30 SQ FT SAMPLE WITH HYDRAULIC DREDGE
BOTTOM TYPE	BOTTOM	VISUAL	USCGS TYPES	712	OBS			
LENGTH OF BENTHIC	BOTTOM	DIRECT	INCHES	712	OBS			SOFT CLAMS AND OYSTERS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
ANIMALS							
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SAMPLE, GROUPED MARKET AND SUBMARKET, ALSO AS BUSHELS PER ACRE	712 OBS			30 SQ FT SAMPLE WITH HYDRAULIC DREDGE
TAXONOMIC LIST OF BENTHIC PLANTS	BOTTOM	KEY	GENERA PER SAMPLE	712 OBS			INCIDENCE WITH SUBJECTIVE COMMENT ON ABUNDANCE

50

001595

HYDRAULIC DREDGE SURVEY IN VICINITY OF CHLORA POINT, CHOPTANK RIVER
DATA COLLECTED: AUGUST 1963 TO AUGUST 1963

RECEIVED: APRIL 15, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, CHLORA POINT, MARYLAND, CHOPTANK, RIVER

ABSTRACT:
SURVEY OF PRODUCTIVE SHELLFISH BOTTOM IN THE CHOPTANK RIVER. HYDRAULIC DREDGE SAMPLES AT 30 STATIONS IN THE VICINITY OF CHLORA POINT. DATA INCLUDES SPECIES LIST, ABUNDANCE, AND SIZE OF BENTHIC ANIMALS. OTHER OBSERVATIONS ON BOTTOM TYPE AND AQUATIC VEGETATION ARE INCLUDED.
(CBL REFERENCE NUMBER 63-44)

DATA AVAILABILITY:
WRITTEN REQUEST

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
4 PAGE TYPED REPORT

FUNDING:
MARYLAND DEPARTMENT OF NATURAL RESOURCES

INVENTORY:

5 PUBLICATIONS:

CONTACT:
HAYES T. PFITZENMEYER 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	30	STATIONS			
TIME	EARTH	STATION TIME	YMD	30	STATIONS			
DEPTH	WATER	WIRE LENGTH	FEET	30	OBS			
BOTTOM TYPE	BOTTOM	VISUAL	USCGS TYPES	30	OBS		BOTTOM	
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	SPECIES PER SAMPLE	30	OBS			20 SQ FT SAMPLE WITH HYDRAULIC DREDGE
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SPECIES PER SAMPLE AND YIELD IN	30	OBS			MYA ARENARIA, CRASSOSTREA VIRGINICA, MOGULA, MACOMA

```
                         HYDRAULIC DREDGE SURVEY IN VICINITY OF CHLORA POINT, CHOPTANK RIVER  (CONT.)
     PARAMETER IDENTIFICATION SECTION:                                                                                PAGE 02
NAME              SPHERE          METHOD              UNITS              DATA AMOUNT        FREQUENCY       HEIGHT/DEPTH    REMARKS
................ .............. ................. ................ .................. ............... ............... ................
                                                   BUSHELS PER
                                                   ACRE
LENGTH OF         BOTTOM          DIRECT                                                                                     BALTHICA,
 BENTHIC                                          INCHES              30       OBS                                           TAGELUS
 ANIMALS                                                                                                                     PLEBIUS
TAXONOMIC LIST    BOTTOM          KEY                                                                                       GROUPED AS
 OF BENTHIC                                       INCIDENCE BY        30       OBS                                           ABOVE AND
 PLANTS                                            GENUS                                                                     BELOW 2 INCHES
                                                                                                                            ZOSTERA,
                                                                                                                             RUPPIA,
                                                                                                                             ELODEA, AND
                                                                                                                             POTOMOGETON
```

```
001594
                         BOTTOM SURVEY, TOLLY POINT TO THOMAS POINT, ANNE ARUNDEL COUNTY, MARYLAND
                              DATA COLLECTED: JUNE 1959 TO JUNE 1959                                   PAGE 01
PROJECTS:                                                                       RECEIVED: APRIL 15, 1974

GENERAL GEOGRAPHIC AREA:
   NORTH ATLANTIC, U.S., CHESAPEAKE BAY, TOLLY POINT TO THOMAS POINT, ANNE ARUNDEL COUNTY, MARYLAND

ABSTRACT:
   SURVEY OF PRODUCTIVE SHELLFISH BOTTOM IN ANNE ARUNDEL COUNTY, MARYLAND. HYDRAULIC DREDGE SAMPLES AT 16 STATIONS. DATA ON
   SHELLFISH ABUNDANCE, SPECIES LIST, AND VEGETATION DISTRIBUTION.

DATA AVAILABILITY:
   WRITTEN REQUEST

PLATFORM TYPES:
   SHIP

ARCHIVE MEDIA:
   REPORTS
   2 PAGE TYPED REPORT. CBL REFERENCE NUMBER 59-33

FUNDING:
   STATE OF MARYLAND DEPARTMENT OF NATURAL RESOURCES

INVENTORY:

PUBLICATIONS:

CONTACT:
   HAYES T. PFITZENMEYER     301 326 4281
   CHESAPEAKE BIOLOGICAL LABORATORY
   SOLOMONS  MARYLAND USA  20688

GRID LOCATOR (LAT):
   730786

     PARAMETER IDENTIFICATION SECTION:

NAME              SPHERE          METHOD            UNITS            DATA AMOUNT
................  ..............  ................  ...............  ................  FREQUENCY      HEIGHT/DEPTH   REMARKS
POSITION          EARTH           FIXED POINT       ...............  ................  .............  .............  ...............
TIME              EARTH           STATION TIME      MAP              16      STATIONS
BOTTOM TYPE       BOTTOM          VISUAL            YMD              16      STATIONS
                                                    USCGS TYPES      16      OBS
SPECIES           BOTTOM          KEY                                                                                HYDRAULIC
 DETERMINATION                                      LIST OF SPECIES  16      OBS                                      DREDGE
 OF BENTHIC                                          PER STATION                                                     HYDRAULIC
 ANIMALS                                                                                                              DREDGE
COUNT OF          BOTTOM          VISUAL
 BENTHIC                                            NUMBER PER       16      OBS
 ANIMALS                                             SPECIES PER                                                     20 SQ FT SAMPLE
                                                     STATION AND
                                                     BUSHELS PER
LENGTH OF         BOTTOM          DIRECT             ACRE
                                                    INCHES           16      OBS
                                                                                                                     GROUPED AS
```

53

```
      PARAMETER IDENTIFICATION SECTION:

NAME              SPHERE          METHOD             UNITS             DATA AMOUNT         FREQUENCY       HEIGHT/DEPTH    REMARKS
................  ..............  .................  ................  ..................  ..............  ..............  ................

 BENTHIC                                                                                                                 UNDER OR OVER
 ANIMALS                                                                                                                 2 INCHES
SPECIES           BOTTOM          KEY                LIST OF SPECIES   16       OBS                                     RECORD PRESENCE
 DETERMINATION                                        PER STATION                                                        OR ABSENCE
 OF BENTHIC
 PLANTS
```

ANNEX III

Part A

Section 1

"5"

Studies of marsh and intertidal areas where submerged aquatic vegetation may be sporadically noted.

001511

RESPONSE OF SALT MARSH COMMUNITY TO CHRONIC HYDROCARBON POLLUTION

DATA COLLECTED: NOVEMBER 1973 TO PRESENT

RECEIVED: MARCH 04, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, CHESAPEAKE BAY, WARE RIVER, SEVERN RIVER

ABSTRACT:

TWO TIDAL MARSHES ALONG THE SEVERN AND WARE RIVERS, VIRGINIA ARE SAMPLED MONTHLY OVER A TWO YEAR PERIOD TO DETERMINE FAUNAL POPULATION SIZES AND FLORAL PRODUCTIVITY. RESPIRATION RATES ARE MEASURED ON BOTH MACROFAUNA AND BENTHOS. COMPARISONS ARE MADE BETWEEN ONE CONTROL MARSH AND ONE MARSH TREATED WITH OIL. (AVAILABLE AS VIMS PH D DISSERTATION, JUNE 1975)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
SIX NOTEBOOKS OF 25 TO 50 DATA SHEETS EACH

FUNDING:

THE VIRGINIA INSTITUTE OF MARINE SCIENCE

INVENTORY:

65 PUBLICATIONS:

CONTACT:

CARL HERSHNER 804 642 2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS			TWO TIDAL MARSHES USED FOR SAMPLING
TIME	EARTH	STATION TIME	YMDH	96	OBS	MONTHLY		STUDY WILL CONTINUE FOR AN APPROXIMATE TWO YEAR PERIOD
COUNT OF INSECTS	LAND	VISUAL	NUMBER PER SPECIES	240	OBS	MONTHLY		TEN OBSERVATIONS PER MONTH
SPECIES DETERMINATION OF INSECTS	LAND	KEY	NUMBER PER SPECIES	240	OBS	MONTHLY		TEN OBSERVATIONS PER MONTH

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF DEMERSAL FISH	WATER	VISUAL	NUMBER PER SPECIES AND POPULATION SIZE	190 OBS	MONTHLY		SEVERAL OBSERVATIONS IN EACH MARSH PER MONTH; MARK-RECAPTURE
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER PER SPECIES AND POPULATION SIZE	190 OBS	MONTHLY		SEVERAL OBSERVATIONS IN EACH MARSH PER MONTH; MARK-RECAPTURE
LENGTH OF DEMERSAL FISH	WATER	TOTAL LENGTH	MILLIMETERS	190 OBS	MONTHLY		SEVERAL OBSERVATIONS IN EACH MARSH PER MONTH; MARK-RECAPTURE; MARSH DECAPODS ONLY
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SPECIES AND POPULATION SIZE	96 OBS	MONTHLY		SEVERAL OBSERVATIONS IN EACH MARSH PER MONTH; MARK-RECAPTURE; MARSH DECAPODS ONLY
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER PER SPECIES AND POPULATION SIZE	96 OBS	MONTHLY		QUADRAT COUNTS OF MARSH GASTROPODS
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SPECIES AND POPULATION SIZE	96 OBS	MONTHLY		QUADRAT COUNTS OF MARSH GASTROPODS
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER PER SPECIES AND POPULATION SIZE	96 OBS	MONTHLY		CORE SAMPLING OF MARSH MACRO- AND MEIO-FAUNA; COMMUNITY DIVERSITY INDICES CALCULATED
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SPECIES AND POPULATION SIZE	96 OBS	MONTHLY		CORE SAMPLING OF MARSH MACRO- AND MEIO-FAUNA; COMMUNITY DIVERSITY INDICES CALCULATED
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER PER SPECIES AND POPULATION SIZE	96 OBS	MONTHLY		PRODUCTIVITY OF MARSH GRASS BY CLIPPED
BIOMASS OF BENTHIC PLANTS	BOTTOM	DRY WEIGHT	GRAMS PER M2	96 OBS	MONTHLY		

57

RESPONSE OF SALT MARSH COMMUNITY TO CHRONIC HYDROCARBON POLLUTION (CONT.)

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF BIRDS	AIR	VISUAL	NUMBER PER SPECIES	96 OBS	MONTHLY		QUADRAT SIGHTINGS OF BIRDS INHABITING MARSH AREA
SPECIES DETERMINATION OF BIRDS	AIR	KEY	NUMBER PER SPECIES	96 OBS	MONTHLY		SIGHTINGS OF BIRDS INHABITING MARSH AREA

```
001084                    CLASSIFICATION AND STRUCTURE OF THE TIDAL MARSHES OF THE POROTANK RIVER,
                                                       VIRGINIA                                                        PAGE 01
                                  DATA COLLECTED: JULY 1964 TO NOVEMBER 1964                               RECEIVED: JULY 31, 1973
PROJECTS:

GENERAL GEOGRAPHIC AREA:
     U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, POROTANK RIVER

ABSTRACT:
     FLORAL SURVEY AND COMMUNITY STRUCTURE ANALYSIS OF THE TIDAL MARSHES OF THE POROPOTANK RIVER VA.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:
     REPORTS
     63 PAGES

FUNDING:

INVENTORY:

PUBLICATIONS:
     VIMS THESIS, 1966, J A KERWIN

CONTACT:
     LIBRARIAN     804-642-2111
     VIRGINIA INSTITUTE OF MARINE SCIENCE
     GLOUCESTER POINT  VIRGINIA USA  23062

GRID LOCATOR (LAT):
     730776

        PARAMETER IDENTIFICATION SECTION:

NAME              SPHERE          METHOD             UNITS             DATA AMOUNT          FREQUENCY      HEIGHT/DEPTH   REMARKS
................. ............... .................. ................. .................... .............. .............. .................
POSITION          EARTH           FIXED POINT        MAP LOCATION      6         STATIONS                                 RIVER SYSTEM
                                                                                                                           DIVIDED INTO
TIME              EARTH           STATION TIME                                                                             SIX SAMPLING
SPECIES           LAND            KEY                YML               6         STATIONS                                  STRATA
 DETERMINATION                                       NUMBER OF         77        OBS                                      SUMMER, 1964
 OF BENTHIC                                           SPECIES PER                                                         CHECKLIST OF 77
 PLANTS                                               STRATA                                                                SPECIES WITH
COMMUNITY         WATER           CALCULATED         NUMBERS           6         STATIONS                                   SCIENTIFIC AND
 STRUCTURE                                                                                                                  COMMON NAMES
 ANALYSIS                                                                                                                 MARSH PLANTS,
                                                                                                                            RELATIVE
                                                                                                                            FREQUENCY,
                                                                                                                            DENSITY,
                                                                                                                            DOMINANCE AND
                                                                                                                            IMPORTANCE
                                                                                                                            VALUES, E
```

59

```
      PARAMETER IDENTIFICATION SECTION:

NAME              SPHERE          METHOD             UNITS              DATA AMOUNT          FREQUENCY       HEIGHT/DEPTH    REMARKS
................. ............... .................. .................. .................... ............... ............... ................

SALINITY          WATER           CONDUCTIVITY       PARTS PER          13        OBS                                         PHILLIPS 1959
                                                      THOUSAND                                                               AVERAGE
                                                                                                                              SALINITY OVER
                                                                                                                              PERIOD OF
                                                                                                                              STUDY
```

002449

COMMONWEALTH OF VIRGINIA TIDAL MARSH INVENTORY
DATA COLLECTED: MAY 1973 TO PRESENT

RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, CHESAPEAKE BAY, VIRGINIA COASTAL WETLANDS

ABSTRACT:

UNDER SECTION 62.1-13.4 OF THE WETLANDS ACT, THE VIRGINIA INSTITUTE OF MARINE SCIENCE IS OBLIGATED TO INVENTORY THE TIDAL WETLANDS OF THE COMMONWEALTH OF VIRGINIA. A SERIES OF MARSH INVENTORY REPORTS ARE THEREFORE BEING COMPILED ON A COUNTY BASIS. EACH REPORT LOCATES AND DESCRIBES THE INDIVIDUAL TIDAL MARSHES WITHIN A COASTAL COUNTY. INFORMATION SUCH AS INDIVIDUAL MARSH ACREAGE, MARSH PLANT COMMUNITY PERCENTAGE AND ACREAGE, WATER-MARSH INTERFACE, INTERFACE MARSH AREA RATIO, AND MISCELLANEOUS OBSERVATIONS ARE PRESENTED IN TABULAR FORM. THE REPORTS RESULT FROM FIELD NOTES AND VEGETATION MAPS DRAWN IN THE FIELD AND OBSERVATIONS MADE USING AERIAL PHOTOGRAPHS AND TOPOGRAPHIC MAPS.
(ONLY SIX REPORTS COVERING LANCASTER COUNTY, MATHEWS COUNTY, YORK COUNTY AND TOWN OF POQUOSON, NORTHUMBERLAND COUNTY, STAFFORD COUNTY, AND PRINCE WILLIAM COUNTY AVAILABLE AS OF 197408)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
ONE 100 PAGE REPORT FOR EACH TIDAL COUNTY

FUNDING:
THE STATE OF VIRGINIA; RANN

INVENTORY:

PUBLICATIONS:
SPECIAL REPORT NO. 45 IN APPLIED MARINE SCIENCE AND OCEAN ENGINEERING

CONTACT:
DR. GENE M. SILBERHORN 804 642 2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730786 730776 730766 730765 730775 730785 730787 730777

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	140	STATIONS			TWO COUNTY REPORTS ONLY
TIME	EARTH	STATION TIME	YEAR	140	OBS			TWO COUNTY REPORTS ONLY
SPECIES DETERMINATION OF BENTHIC PLANTS	BOTTOM	KEY	PER CENT AREA	140	OBS			TWO COUNTY REPORTS ONLY

001014

THE EFFECTS OF THERMAL LOADING BY THE BREMO POWER STATION ON A PIEDMONT SECTION OF THE JAMES RIVER

DATA COLLECTED: JULY 1971 TO JUNE 1973

RECEIVED: JULY 13, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER, BREMO BLUFF TO COLUMBIA

ABSTRACT:
PIEDMONT SECTION OF JAMES RIVER, VIRGINIA STUDIED FOR EFFECTS OF THERMAL LOADING BY POWER STATION-INCLUDES PERIOD OF HURRICANE AGNES. ABIOTIC AND BIOTIC MESSUREMENTS MADE.
(DATA INCLUDES PERIOD OF HURRICANE AGNES; COLLECTIONS KEPT AT VA INST OF SCI RESEARCH)

DATA AVAILABILITY:
WITH APPROVAL REPORTS SENT TO OFFICE OF WATER RESEARCH, VIRGINIA ELECTRIC AND POWER COMPANY

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
25 PARAMETERS MEASURED OVER 24 MONTHS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
WILLIAM S WOOLCOTT 703-282-9581
VIRGINIA INSTITUTE FOR SCIENTIFIC RESEARCH
RICHMOND VIRGINIA USA 23229

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	10	STATIONS	60 TIMES PER YEAR		
TIME	EARTH	SAMPLING TIME	YMDHL	21600	STATIONS	60 TIMES PER YEAR		
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	21600	OBS	60 TIMES PER YEAR	SURFACE	TEMPERATURE PROFILES TAKEN 6 TIMES PER YEAR
PH	WATER	SPECIFIC ION ELECTRODE	UNITS	21600	OBS	60 TIMES PER YEAR	SURFACE	
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	MILLIGRAMS PER LITER	21600	OBS	60 TIMES PER YEAR	SUB-SURFACE	WINKLER TITRATION CHECK

THE EFFECTS OF THERMAL LOADING BY THE BREMO POWER STATION ON A PIEDMONT SECTION (CONT.) OF THE JAMES RIVER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
AMMONIA	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	21600	OBS	60 TIMES PER YEAR	SUB-SURFACE	
NITRATE	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	21600	OBS	60 TIMES PER YEAR	SUB-SURFACE	
NITRITE	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	21600	OBS	60 TIMES PER YEAR	SUB-SURFACE	
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	21600	OBS	60 TIMES PER YEAR	SUB-SURFACE	
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	21600	OBS	60 TIMES PER YEAR	SUB-SURFACE	
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	FEET	21600	OBS	60 TIMES PER YEAR	SUB-SURFACE	
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS PER SAMPLE	151200	OBS	60 TIMES PER YEAR	BOTTOM	108000 SHORE BENTHOS COLLECTED USING MODIFIED TONGS, ARTIFICIAL SUBSTRATE USED TO COLLECT 43,200 ORGANISMS SUSPENDED 1 FT. OFF BOTTOM
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES PER SAMPLE	151200	OBS	60 TIMES PER YEAR	BOTTOM	108000 SHORE BENTHOS COLLECTED USING MODIFIED TONGS, ARTIFICIAL SUBSTRATE USED TO COLLECT 43,200 ORGANISMS SUSPENDED 1 FT. OFF BOTTOM
COUNT OF DEMERSAL FISH	WATER	VISUAL	NUMBER OF INDIVIDUALS PER STATION	540	OBS	18 TIMES PER YEAR		220V 1 1/2 TO 3 AMP ELECTRIC SHOCK. 100 TO 250 YARDS PER STATION
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER OF SPECIES PER STATION, NUMBER OF INDIVIDUAL SPECIES PER STATION	540	OBS	18 TIMES PER YEAR		220V 1- 1/2 TO 3 AMP ELECTRIC SHOCK. 100 TO 250 YARDS PER STATION
BIOMASS OF DEMERSAL FISH	WATER	WET WEIGHT	GRAMS, SPECIES PER STATION	540	OBS	18 TIMES PER YEAR		
LENGTH OF DEMERSAL FISH	WATER	STANDARD LENGTH	MILLIMETERS	540	OBS	18 TIMES PER YEAR		LENGTH RANGE RECORDED

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
DIVERSITY INDEX OF DEMERSAL FISH	WATER	SHANNON-WEAVER	NUMBERS	540	OBS	18 TIMES PER YEAR		
STOMACH CONTENT ANALYSIS OF DEMERSAL FISH	WATER	VISUAL	PERCENTAGE OF SPECIES INGESTED PER FISH SPECIES	540	OBS	18 TIMES PER YEAR		
SPECIES DETERMINATION OF BENTHIC PLANTS	LAND	KEY	NUMBER OF SPECIES PER STATION	540	OBS	18 TIMES PER YEAR		ESTIMATES AS TO QUANTITY, SAMPLES COLLECTED ON SHORE
SPECIES DETERMINATION OF BENTHIC PLANTS	BOTTOM	KEY	NUMBER OF SPECIES PER SLIDE	180	OBS	6 TIMES PER YEAR		SAMPLES COLLECTED ON GLASS SLIDES SET IN RIVER
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS PER SLIDE	180	OBS	6 TIMES PER YEAR		SAMPLES COLLECTED ON GLASS SLIDES SET IN RIVER
PARTICULATE MATTER	WATER	MEMBRANE FILTRATION	PARTS PER MILLION	21600	OBS	60 TIMES PER YEAR	SUB-SURFACE	

64

ANNEX III

Part A

Section 1

"6"
Areas near the Chesapeake Bay including
oceanside Maryland and Virginia, Delaware,
and the northern coast of North Carolina.

001625

CHINCOTEAGUE AND SINEPUXENT BAY BENTHOS
DATA COLLECTED: AUGUST 1969 TO AUGUST 1969

RECEIVED: APRIL 29, 1974

PROJECTS:
ASSATEAGUE ECOLOGICAL STUDIES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELMARVA PENINSULA, CHINCOTEAGUE BAY, SINEPUXENT BAY

ABSTRACT:

DESCRIPTIVE SURVEY OF BENTHIC COMMUNITIES IN CHINCOTEAGUE AND SINEPUXENT BAYS CONDUCTED IN 1969. 139 STATIONS OCCUPIED WITH 3 REPLICATE SAMPLES PER STATION. DEPTH, SEDIMENT TYPE, AND BIOLOGICAL MATERIAL REPORTED FOR EACH STATION. MORE INTENSIVE SAMPLING PERFORMED IN AREAS OF DREDGE BORROW PITS.
(ANALYSES BY KLAUS DROBECK, NRI REFERENCE 446, UNIVERSITY OF MARYLAND)

DATA AVAILABILITY:
WRITTEN REQUEST

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
PART 6 OF 300 PAGE REPORT

FUNDING:
NATIONAL PARKS SERVICE CONTRACT NUMBER 14-10-5-950-36

INVENTORY:

66

PUBLICATIONS:

CONTACT:
LIBRARIAN 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	139	STATIONS			
TIME	EARTH	STATION TIME	YMD	139	STATIONS			
DEPTH	WATER	WIRE LENGTH	FEET	139	OBS		BOTTOM	
SIZE ANALYSIS	SEDIMENT	SETTLING/ WEIGHING	PHI UNITS	139	OBS			MEAN GRAIN SIZE, MEDIAN GRAIN SIZE, SKEWNESS, SORTING COEFFICIENT
ORGANIC CARBON	SEDIMENT	GRAVIMETRY	PERCENT OF SAMPLE	139	OBS			

CHINCOTEAGUE AND SINEPUXENT BAY BENTHOS (CONT.)

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SPECIES DETERMINATION OF BENTHIC PLANTS	BOTTOM	KEY	NUMBER OF SPECIES PER STATION	139	OBS			
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	NUMBER PER SPECIES	139	OBS			RELATIVE ABUNDANCE SCALE TO RANK THE DOMINANT SPECIES
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF SPECIES PER STATION	417	OBS			
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SPECIES PER REPLICATE PER STATION AND MEANS	417	OBS			
LENGTH OF BENTHIC ANIMALS	BOTTOM	DIRECT	MILLIMETERS	139	OBS			VENUS MERCENARIA , SIZE FREQUENCY PER STATION, MEAN LENGTH PER STATION
COMMUNITY STRUCTURE ANALYSIS	BOTTOM	CALCULATED	CORRELATIONS	139	OBS			DISTRIBUTION AND DENSITY OF CLAMS WITH OTHER FACTORS OF PHYSICAL AND BIOLOGICAL NATURE OF HABITAT

SUBMERGED VEGETATION OF CHINCOTEAGUE BAY
DATA COLLECTED: MAY 1969 TO AUGUST 1970

RECEIVED: APRIL 29, 1974

PROJECTS:
ASSATEAGUE ECOLOGICAL STUDIES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELMARVA PENINSULA, CHINCOTEAGUE BAY

ABSTRACT:

SURVEY OF BENTHIC VEGETATION IN CHINCOTEAGUE BAY CONDUCTED AS PART OF A STUDY OF ASSATEAGUE NATIONAL PARK. DATA INCLUDED IN THIS STUDY ARE SPECIES LISTS, ABUNDANCE, WEIGHT, SIZE, AND GROWTH. OBJECTIVES WERE TO DEFINE THE DISTRIBUTION AND GROWTH OF BENTHIC VEGETATION IN THE AREA. SAMPLES TAKEN FROM MAY THROUGH AUGUST AT 2 WEEK INTERVALS DURING 1969 AND 1970 (WORK BY RICHARD R. ANDERSON, NRI REFERENCE NUMBER 446, UNIVERSITY OF MARYLAND)

DATA AVAILABILITY:
WRITTEN REQUEST

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
PART 4 OF 300 PAGE REPORT

FUNDING:
NATIONAL PARKS SERVICE CONTRACT NUMBER 14-10-5-950-36

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730/86

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	192	STATIONS			
TIME	EARTH	STATION TIME	YMD	192	STATIONS			
TIME	EARTH	STATION TIME	YMD	192	OBS			
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	NUMBER PER SPECIES	355	OBS	2 WEEK INTERVALS		EKMAN GRAB 15 CM
SPECIES DETERMINATION OF BENTHIC PLANTS	BOTTOM	KEY	NUMBER OF SPECIES PER STATION	355	OBS	2 WEEK INTERVALS		EKMAN GRAB 15 CM
LENGTH OF BENTHIC PLANTS	BOTTOM	DIRECT	MM	15000	OBS	2 WEEK INTERVALS		50 PER INTERVAL FOR ZOSTRA AND

```
      PARAMETER IDENTIFICATION SECTION:

NAME             SPHERE         METHOD           UNITS            DATA AMOUNT          FREQUENCY       HEIGHT/DEPTH    REMARKS
................ .............. ................ ................ .................... .............. .............. ...............

                                                                                                                        RUPPIA,
                                                                                                                        COMPUTED
                                                                                                                        GROWTH FROM
                                                                                                                        MEAN LENGTHS
WEIGHT OF        BOTTOM         DRY WEIGHT       GRAMS            15000     OBS        2 WEEK                          50 PER INTERVAL
 BENTHIC PLANTS                                                                          INTERVALS                      FOR ZOSTRA AND
                                                                                                                        RUPPIA,
                                                                                                                        COMPUTED
                                                                                                                        GROWTH FROM
                                                                                                                        MEAN LENGTHS
BIOMASS OF       BOTTOM         DRY WEIGHT       GRAMS PER SQ     355       OBS        2 WEEK
 BENTHIC PLANTS                                   METER                                  INTERVALS
```

000148

QUALITATIVE SURVEY OF SUBMERGENT VEGETATION
DATA COLLECTED: JULY 1967 TO AUGUST 1969

RECEIVED: NOVEMBER 07, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, EASTERN SHORE, MARYLAND

ABSTRACT:

EXTENSIVE SURVEY OF SUBMERGED ROOTED AQUATIC PLANTS, QUALITATIVE RANKED ABUNDANCE, RELATE TO FORAGE FOR MIGRANT WATERFOWL. OVER 1000 STATIONS, 1 VISIT, 4 REPLICATES PER STATION. 3 DEPTH STRATA, DATA ON 12 SPECES OF ROOTED AQUATIC PLANTS PLUS SEVERAL GENERA OF ALGAE.
(STATE SUPPORTED PREDECESSOR TO BSFW STUDY)

DATA AVAILABILITY:
COST OF DUPLICATION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
3 STANDARD FILE CABINET DRAWERS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

VERNON STOTTS 301-267 5195
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730775 730785 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1000	STATIONS	1 TIME		
TIME	EARTH	STATION TIME	YMDH 5 MINUTE INTERVAL	1000	STATIONS	1 TIME		
DEPTH	WATER	WIRE LENGTH	FEET	3000	OBS	1 TIME	BOTTOM	DEPTHS STRATIFIED 0 TO 3 FT, 4 TO 6 FT, AND 7 TO 12 FT
BOTTOM TYPE	BOTTOM	VISUAL	U S GEODETIC TYPES	3000	OBS	1 TIME	BOTTOM	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	100	OBS	1 TIME	SURFACE	RS-5
TEMPERATURE	WATER	THERMISTOR	DEGREES C	100	OBS	1 TIME	SURFACE	

```
      PARAMETER IDENTIFICATION SECTION:

NAME              SPHERE         METHOD             UNITS             DATA AMOUNT          FREQUENCY      HEIGHT/DEPTH   REMARKS
................  .............  .................  ................  ...................  .............  .............  ................
ELECTRICAL        WATER          IN SITU            MILLIOHMS         100       OBS        1 TIME         SURFACE
 CONDUCTIVITY                     CONDUCTIVITY
                                  CELL/TEMPERATURE
                                   CORRECTED
SPECIES           BOTTOM         KEY                NUMBER OF         12000     OBS        1 TIME         BOTTOM         14 INCH
 DETERMINATION                                       SPECIES PER                                                        CULTIVATOR
 OF BENTHIC                                          STRATUM                                                            RAKE DRAGGED
 PLANTS                                                                                                                 OVER AREA, 4
                                                                                                                        REPLICATE
                                                                                                                        DRAGS PER
                                                                                                                        STATION, 12
                                                                                                                        SPECIES OF
                                                                                                                        ROOTED PLANTS
                                                                                                                        AND SEVERAL
                                                                                                                        GENERA OF
                                                                                                                        FILAMENTOUS
                                                                                                                        ALGA
SPECIES           BOTTOM         KEY                NUMBER OF         12000     OBS        1 TIME         BOTTOM         SPONGES,
 DETERMINATION                                       SPECIES PER                                                        CORALS,
 OF BENTHIC                                          STRATUM                                                            TUNICATES
 ANIMALS
TAXONOMIC LIST    BOTTOM         KEY                NUMBER OF         12000     OBS        1 TIME         BOTTOM         ALGAE TO GENUS
 OF BENTHIC                                          SPECIES PER
 PLANTS                                              STRATUM
COUNT OF          BOTTOM         VISUAL             RELATIVE          12000     OBS        1 TIME         BOTTOM         RARE, OCCASIONAL
 BENTHIC PLANTS                                      ABUNDANCE,                                                         , COMMON,
                                                     AVERAGE INDEX                                                      ABUNDANT PER
                                                     PER STATION                                                        SPECIES PER
                                                     PER SPECIES                                                        DRAG
```

```
000146                                 ESTUARINE BENTHIC SURVEY                                                    PAGE 01
                           DATA COLLECTED: AUGUST 1959 TO SEPTEMBER 1961                          RECEIVED: NOVEMBER 07, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
     NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:
     VEGETATIVE SURVEY OF OCEANSIDE EASTERN SHORE MARYLAND AND TRIBUTARIES ANNUAL FALL SURVEY OF WATERFOWL HABITAT. DATA INCLUDES
     1959-1961 SEASONS. VEGETATION-VOLUMES AND SPECIES. BENTHIC ANIMALS-COUNTS AND SPECIES LISTS PER STATION
     (BUREAU OF SPORT FISHERIES AND WILDLIFE AND MARYLAND, REGION IV)

DATA AVAILABILITY:
     COST OF DUPLICATION

PLATFORM TYPES:
     SHIP

ARCHIVE MEDIA:
     DATA SHEETS; REPORTS
     3 CUBIC FEET OF DATA SHEETS

FUNDING:
     PITTMAN-ROBERTSON ACT, PROJECT W30 R

INVENTORY:

PUBLICATIONS:

CONTACT:
     VERNON STOTTS    301-267-5195
     MARYLAND DEPARTMENT OF NATURAL RESOURCES
     TAWES STATE OFFICE BUILDING
     ANNAPOLIS   MARYLAND USA  21401

GRID LOCATOR (LAT):
     730775 730705

        PARAMETER IDENTIFICATION SECTION:

NAME              SPHERE          METHOD              UNITS            DATA AMOUNT          FREQUENCY        HEIGHT/DEPTH    REMARKS
................. ............... ................... ................ ................... ................ ............... ................
POSITION          EARTH           FIXED POINT         MAP LOCATION     2880     STATIONS    1 TIME PER
                                                                                             YEAR
TIME              EARTH           STATION TIME        YMDHML           2880     STATIONS    1 TIME PER
                                                                                             YEAR
DEPTH             WATER           WIRE LENGTH         FEET FROM MLW    2880     OBS         1 TIME PER        BOTTOM         RECORDED IN
                                                                                             YEAR                             HALF FEET,
                                                                                                                              MAXIMUM 12
BOTTOM TYPE       BOTTOM          VISUAL              GENERAL U S      2880     OBS         1 TIME PER        BOTTOM          FEET
                                                       COAST AND                             YEAR
                                                       GEODETIC
                                                       CLASSES
```

72

```
      PARAMETER IDENTIFICATION SECTION:

NAME              SPHERE          METHOD             UNITS             DATA AMOUNT          FREQUENCY       HEIGHT/DEPTH    REMARKS
................. ............... .................. ................. .................... ............... ............... ...............

PARTICULATE       WATER           GRAVIMETRY         CUBIC CENTIMETER 2880        OBS       1 TIME PER      BOTTOM          WET WASH
 MATTER                                               S                                      YEAR                             CONTENTS FROM
                                                                                                                              0.56 SQ FOOT
                                                                                                                              PETERSON GRAB,
SIZE ANALYSIS     SEDIMENT        DISPLACEMENT       CUBIC CENTIMETER 2880        OBS       1 TIME PER      BOTTOM           DETRITUS
                                                      S                                      YEAR                            VOLUME DETERMINA
VOLUME DETERMINA  BOTTOM          SETTLING           CUBIC CENTIMETER 2880        OBS       1 TIME PER      BOTTOM           TION OF SHELL
 TION OF                                              S                                      YEAR                            VOLUME OF EACH
 BENTHIC PLANTS                                                                                                               PLANT SPECIES
                                                                                                                              IN SAMPLE,
                                                                                                                              RELATE TO
SPECIES           BOTTOM          KEY                NUMBER PER       2880        OBS       1 TIME PER      BOTTOM            BIRDS
 DETERMINATION                                        STATION                                YEAR                            RELATE TO
 OF BENTHIC                                                                                                                   WATERFOWL
 PLANTS
COUNT OF          BOTTOM          VISUAL             TOTAL NUMBER     2880        OBS       1 TIME PER      BOTTOM           RELATE TO
 BENTHIC                                              PER STATION                            YEAR                             WATERFOWL
 ANIMALS
SPECIES           BOTTOM          KEY                NUMBER OF        2880        OBS       1 TIME PER      BOTTOM           SAMPLE SIEVED
 DETERMINATION                                        SPECIES PER                            YEAR                             THROUGH 1 MM
 OF BENTHIC                                           STATION
 ANIMALS
```

000256

EVALUATION OF CHANNELIZATION EFFECTS ON AQUATIC HABITAT
DATA COLLECTED: JULY 1973 TO PRESENT

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, COASTAL, MARYLAND, EASTERN SHORE

ABSTRACT:
EXTENSIVE DATA BASE ON 19 CHANNELIZED STREAMS INCLUDING WATER CHEMISTRY, BENTHOS, AND FISHES. COMPARISONS ACROSS STREAMS BASED UPON TIME SINCE CHANNELIZED. DETERMINATION OF RECOVERY TIME AND SEQUENCE OF BIOTA AND CHEMICAL FACTORS.

DATA AVAILABILITY:
WITH REQUEST AND COST OF DUPLICATION

PLATFORM TYPES:

ARCHIVE MEDIA:
DATA SHEETS
2 STANDARD FILE DRAWERS

FUNDING:
BSFW DINGELL-JOHNSON ACT AND MARYLAND DNR, PROJECT MD F 24 R

INVENTORY:

PUBLICATIONS:

CONTACT:
W.R. CARTER 301-267-5361
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730785 730786 730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	648	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	648	STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG C	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	BECKMAN RS-5
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	BECKMAN RS-5
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	PARTS PER MILLION	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	YSI MODEL 54
SULFATE	WATER	COLORIMETRY	PARTS PER MILLION	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	HACH KIT TEST
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	BECKMAN LAB MODEL
PHOSPHATE	WATER	COLORIMETRY	PARTS PER MILLION	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	HACH KIT TEST

```
000256                         EVALUATION OF CHANNELIZATION EFFECTS ON AQUATIC HABITAT  (CONT.)                  PAGE 02
     PARAMETER IDENTIFICATION SECTION:
NAME             SPHERE        METHOD            UNITS            DATA AMOUNT        FREQUENCY      HEIGHT/DEPTH   REMARKS
...............  ............. ................. ................ .................. .............. .............. ...............
HARDNESS         WATER         EDTA TITRATION    PARTS PER        1296     OBS       2 TIMES PER    SURFACE AND
                                                  MILLION                             MONTH          BOTTOM
TOTAL ALKALINITY WATER         TITRATION         PARTS PER        1296     OBS       2 TIMES PER    SURFACE AND
                                                  MILLION                             MONTH          BOTTOM
LIGHT ATTENUATIO WATER         SPECTROPHOTOMETRY PARTS PER        1296     OBS       2 TIMES PER    SURFACE AND    HELLIGE
 N                                                MILLION AS                          MONTH          BOTTOM
                                                  SILICON
                                                  DIOXIDE
SECCHI DISC      WATER         AVERAGE DEPTH     0 PT 1 METERS    1296     OBS       2 TIMES PER
 DEPTH                                                                                MONTH
DEPTH            WATER         WIRE LENGTH       FEET             1296     OBS       2 TIMES PER    BOTTOM
                                                                                      MONTH
BOTTOM TYPE      BOTTOM        VISUAL            SAND, MUD,       1296     OBS       2 TIMES PER    BOTTOM
                                                  SHELL, MIXED                        MONTH
BATHYMETRY       WATER         LEAD LINE         CROSS SECTION    540      OBS
                                                  AREA IN SQ FT                                                    STREAM PROFILE
WEIGHT OF        BOTTOM        WET WEIGHT        PER SQ FT PER    540      OBS       2 TIMES
 BENTHIC PLANTS                                   TRANSECT                                                         SAMPLE EVERY
                                                                                                                    THIRD FOOT ON
COUNT OF         BOTTOM        VISUAL            INTERCEPTED      540      OBS       2 TIMES        BOTTOM          TRANSECT
 BENTHIC PLANTS                                   INCHES ON                                                        10 TRANSECTS ON
                                                  TRANSECT                                                          27 STREAMS
CURRENT SPEED    WATER         IMPELLOR METER    FT PER SECOND    540      OBS       2 TIMES
                                                                                                                   SEASONAL
COUNT OF         BOTTOM        VISUAL            AVERAGE NUMBER   540      OBS       2 TIMES                        READINGS
 BENTHIC                                          PER AREA                                                         SMALL PETERSEN
 ANIMALS                                                                                                            GRAB, 1 SAMPLE
TAXONOMIC LIST   BOTTOM        KEY               NUMBER PER       540      OBS       2 TIMES                        PER TRANSECT
 OF BENTHIC                                       GENUS                                                            SMALL PETERSEN
 ANIMALS                                                                                                            GRAB, 1 SAMPLE
COMMUNITY        BOTTOM        CALCULATED        RANK ANALYSIS    54       OBS                                      PER TRANSECT
 STRUCTURE                                                                                                         BENTHIC ANIMALS
 ANALYSIS
SPECIES          WATER         KEY               NUMBER PER       27       OBS
 DETERMINATION                                    SPECIES PER                                                      100 FOOT
 OF DEMERSAL                                      AREA, SPECIES                                                     ROTENONE
 FISH                                             LIST                                                              SAMPLE
SPECIES          WATER         KEY               NUMBER PER       27       OBS
 DETERMINATION                                    SPECIES PER                                                      100 FOOT
 OF PELAGIC                                       AREA, SPECIES                                                     ROTENONE
 FISH                                             LIST                                                              SAMPLE
COUNT OF         WATER         VISUAL            AVERAGE NUMBER   27       OBS
 DEMERSAL FISH                                    PER AREA
COUNT OF         WATER         VISUAL            AVERAGE NUMBER   27       OBS
 PELAGIC FISH                                     PER AREA
COMMUNITY        WATER         CALCULATED        RANK ANALYSIS    27       OBS
 STRUCTURE                                                                                                         FISH COMMUNITY
 ANALYSIS
LENGTH OF        WATER         TOTAL LENGTH      MILLIMETERS      5000     OBS
 DEMERSAL FISH                                                                                                     ALL GAME FISHES
WEIGHT OF        WATER         WET WEIGHT        GRAMS            5000     OBS
 DEMERSAL FISH                                                                                                     ALL GAME FISHES
AGE DATING OF    WATER         SCALES            YEARS            5000     OBS
                                                                                                                   ALL GAME FISHES
```

```
      PARAMETER IDENTIFICATION SECTION:

NAME             SPHERE         METHOD            UNITS            DATA AMOUNT        FREQUENCY      HEIGHT/DEPTH   REMARKS
................ .............. ................. ................ .................. .............. .............. ................

 DEMERSAL FISH
```

000174

MARINE FINFISH AND SHELLFISH SURVEY
DATA COLLECTED: JUNE 1971 TO PRESENT

RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND, OCEAN SIDE

ABSTRACT:

BEACHSEINE AND TRAWL SURVEY OF FISHES OCCURRING IN BAYS ON OCEANSIDE EASTERN SHORE, MARYLAND. HYDRO DATA WITH EACH COLLECTION, SPECIES LISTS, SIZE RANGE, NUMBERS. STANDARD COLLECTION TECHNIQUE APPLIED AND DATA EXPANDED TO AREA ESTIMATES. MAINLY SUMMER DATA, TO BECOME QUARTERLY SURVEY.
(SOME DATA APPEARS IN WILLIAM SIPPLE FILE ECOLOGICAL WETLANDS ASSESSMENT)

DATA AVAILABILITY:
COST OF DUPLICATION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
FILED BY YEAR, LOOSE TYPED FIELD SHEETS, SEINE AND TRAWL SAMPLES SEPARATED BY YEAR

FUNDING:
MARYLAND DEPT NATURAL RESOURCES

INVENTORY:
197 SEINE SAMPLES (SITE LESS THAN 3.5' IN DEPTH), 459 TRAWL SAMPLES (SITES GREATER THAN 3.5' IN DEPTH), 5 HOOP TRAP SAMPLES

PUBLICATIONS:
IN HOUSE PUBLICATIONS AVAILABLE BY FISCAL 1977

CONTACT:
JIM CASEY 301-827-8122
WYEMILLS REGIONAL STATION
P O BOX 68
WYEMILLS MARYLAND USA 21679

GRID LOCATOR (LAT):
730775 730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	480	STATIONS			
TIME	EARTH	STATION TIME	YMDHM	480	STATIONS			
DEPTH	WATER	WIRE LENGTH	FEET	480	OBS	2 TIMES PER STATION PER YEAR	BOTTOM	RECORD DEPTH RANGE DURING TOW, SHALLOWEST TO DEEPEST FOR SEINE AND BEGINNING AND END FOR TRAWL

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	PARTS PER MILLION	480 OBS	2 TIMES PER STATION PER YEAR	ONE FOOT OFF BOTTOM	PROFILE 2 FT INTERVALS AT DEEP STATIONS AND WETLAND EVALUATION SITES, YSI MODEL 51A
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	480 OBS	2 TIMES PER STATION PER YEAR	ONE FOOT OFF BOTTOM	YSI MODEL 33
TEMPERATURE	WATER	THERMISTOR	DEG C	480 OBS	2 TIMES PER STATION PER YEAR	ONE FOOT OFF BOTTOM	YSI MODELS 33 AND 51A
WEATHER	AIR	VISUAL	CLEAR, PROPORTION CLOUD COVER, HAZE, PRECIPITATION, RAIN, SNOW, SLEET	480 OBS	2 TIMES PER STATION PER YEAR		
WAVE AMPLITUDE	WATER	VISUAL	SEA STATE	480 OBS	2 TIMES PER STATION PER YEAR		
WIND SPEED	AIR	VISUAL	MPH	480 OBS	2 TIMES PER STATION PER YEAR		
WIND DIRECTION	AIR	VISUAL	COMPASS POINTS	480 OBS	2 TIMES PER STATION PER YEAR		
BOTTOM TYPE	BOTTOM	VISUAL	GEODETIC CLASSES	480 OBS	2 TIMES PER STATION PER YEAR		PIPE PLUG SAMPLE
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	RELATIVE ABUNDANCE	480 OBS	2 TIMES PER STATION PER YEAR	BOTTOM	1 TO 4 SCALE, SCARCE, COMMON, ABUNDANT, VERY ABUNDANT
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	SPECIES PER TOW AND PER AREA BY GEAR	15 OBS	2 TIMES PER STATION PER YEAR		TRAWL AND SEINE, SEINE IS 100 FT X 6 FT X 1/4 INCH WITH 6X6X6 FT BAG SAMPLE COVERS 5500 SQ FT PER TOW, TRAWL 16 FOOT SEMIBALLOON OTTER TRAWL WITH 1/4 INCH LINER, SAMPLE COVERS 40,000 SQ FT
SPECIES DETERMINATION OF DEMERSAL	WATER	KEY	SPECIES PER TOW AND PER AREA BY GEAR	50 OBS	2 TIMES PER STATION PER YEAR	BOTTOM	TRAWL AND SEINE, SEINE IS 100 FT X 6

78

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
FISH							FT X 1/4 INCH WITH 6X6X6 FT BAG SAMPLE COVERS 5500 SQ FT PER TOW, TRAWL 16 FOOT SEMIBALLOON OTTER TRAWL WITH 1/4 INCH LINER, SAMPLE COVERS 40,000 SQ FT
COUNT OF PELAGIC FISH	WATER	VISUAL	NUMBER PER SPECIES PER TOW PER AREA, TOTAL NUMBER PER TOW AND AREA	15 OBS	2 TIMES PER STATION PER YEAR		
COUNT OF DEMERSAL FISH	WATER	VISUAL	NUMBER PER SPECIES PER TOW PER AREA, TOTAL NUMBER PER TOW AND AREA	50 OBS	2 TIMES PER STATION PER YEAR	BOTTOM	
LENGTH OF PELAGIC FISH	WATER	TOTAL LENGTH	CENTIMETER, RANGE PER SPECIES, PER TOW PER AREA	15 OBS	2 TIMES PER STATION PER YEAR		
LENGTH OF DEMERSAL FISH	WATER	TOTAL LENGTH	CENTIMETER, RANGE PER SPECIES, PER TOW PER AREA	50 OBS	2 TIMES PER STATION PER YEAR		
BIOMASS OF PELAGIC FISH	WATER	WET WEIGHT	POUNDS PER ACRE	480 OBS	2 TIMES PER STATION PER YEAR		
BIOMASS OF DEMERSAL FISH	WATER	WET WEIGHT	POUNDS PER ACRE	480 OBS	2 TIMES PER STATION PER YEAR		
BIOMASS OF BENTHIC ANIMALS	BOTTOM	WET WEIGHT	POUNDS PER ACRE	480 OBS	2 TIMES PER STATION PER YEAR		CALLINECTES SAPIDUS
COMMUNITY STRUCTURE ANALYSIS	WATER	CALCULATED	DOMINANCE RANKING, HABITAT TYPE	480 OBS	2 TIMES PER STATION PER YEAR		ALL FISH DATA TREATED BY GEAR TYPE AND COMBINED GEAR
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF SPECIES PER TOW, PER AREA	10 OBS	2 TIMES PER STATION PER YEAR	BOTTOM	HERMIT CRAB, LADY CRAB, ROCK CRAB, PENAEID SHRIMP, MANTIS SHRIMP, GRASS SHRIMP, CRANGON, BLUE

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								CRAB
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SPECIES IN EACH TOW, EACH AREA, TOTAL NUMBER	480	OBS	2 TIMES PER STATION PER YEAR	BOTTOM	HERMIT CRAB, LADY CRAB, ROCK CRAB, PENAEID SHRIMP, MANTIS SHRIMP, GRASS SHRIMP, CRANGON, BLUE CRAB
SEX DETERMINATION OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER MALE, FEMALE, AND IMMATURE	480	OBS	2 TIMES PER STATION PER YEAR	BOTTOM	CALLINECTES SAPIDUS
LENGTH OF BENTHIC ANIMALS	BOTTOM	DIRECT	INCH GROUPS FOR CARAPACE WIDTH	480	OBS	2 TIMES PER STATION PER YEAR		CALLINECTES SAPIDUS
SPECIES DETERMINATION OF REPTILES	WATER	KEY	NUMBER PER SPECIES	1	OBS	2 TIMES PER STATION PER YEAR		DIAMONDBACK TURTLE
COUNT OF REPTILES	WATER	VISUAL	NUMBER PER TOW, PER AREA	480	OBS	2 TIMES PER STATION PER YEAR		DIAMONDBACK TURTLE

80

005115

ENERGY UTILIZATION IN THE MARSH CRAB, SESARMA RETICULATUM (SAY)
DATA COLLECTED: JUNE 1971 TO AUGUST 1972

RECEIVED: NOVEMBER 19, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, DELAWARE BAY, CANARY CREEK

ABSTRACT:

THE MARSH CRAB, SESARMA RETICULATUM (SAY), FEEDS PRIMARILY UPON THE CODGRASS, SPARTINA ALTERNIFLORA, DURING THE SUMMER MONTHS IN CANARY CREEK MARSH (LEWES, DELAWARE). IN SO DOING, SESARMA IS A PART OF THE SECOND, OR HERBIVORE, TROPHIC LEVEL IN THE MARSH. A STUDY WAS UNDERTAKEN TO DETERMINE THE ENERGY UTILIZED BY SESARMA IN FEEDING UPON SPARTINA OVER LUNAR-MONTHLY PERIODS. AMOUNTS OF SPARTINA INGESTED AND ASSIMILATED, IN TERMS OF GRAMS DRY WEIGHT, WERE FOUND FOR THREE GROUPS OF CRABS. THESE STUDIES INDICATE A POSSIBLE RELATIONSHIP BETWEEN THE QUANTITY (I.E. GRAMS DRY WEIGHT) AND/OR QUALITY (I.E. ASSOCIATED WITH MATURITY) OF SPARTINA AVAILABLE TO THE CRABS AND THE AMOUNTS INGESTED AND ASSIMILATED. THESE DATA, IN ADDITION TO DATA FROM RESPIRATION MEASUREMENTS, WERE COMBINED WITH INFORMATION FROM THE LITERATURE TO CONSTRUCT ENERGY BUDGETS, IN TERMS OF CALORIC VALUES, FOR THE THREE GROUPS. SUBSEQUENTLY, THE DATA WERE EXTRAPOLATED TO THE MARSH ECOSYSTEM TO OBTAIN ESTIMATES OF ENERGY UTILIZATION BY THE MARSH POPULATION OF SESARMA.

DATA AVAILABILITY:
ALSO AT UNIVERSITY OF DELAWARE, MARINE STATION LIBRARY

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
61 PAGES

FUNDING:
STATE OF DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

INVENTORY:

PUBLICATIONS:
RESEARCHERS JOAN R. JACKEWICZ. DATA INCLUDED IN UNPUBLISHED M.S. THESIS, U. OF DELAWARE

CONTACT:
JOHN C. BRYSON   302 678 4403
DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DOVER   DELAWARE USA 19901

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

```
NAME              SPHERE          METHOD           UNITS            DATA AMOUNT          FREQUENCY       HEIGHT/DEPTH    REMARKS
................  ..............  ...............  ...............  ...................  ..............  ..............  ...............
POSITION          EARTH           FIXED POINT      DEG              1       STATIONS     MONTHLY         SURFACE
TIME              EARTH           STATION TIME     YMD              35      OBS          MONTHLY         SURFACE
WEIGHT OF         BOTTOM          WET WEIGHT       GRAMS            35      OBS          MONTHLY         SURFACE
 BENTHIC
 ANIMALS
COUNT OF          BOTTOM          VISUAL           NUMBER           35      OBS          MONTHLY         SURFACE
```

```
005115
                          ENERGY UTILIZATION IN THE MARSH CRAB, SESARMA RETICULATUM (SAY)  (CONT.)
     PARAMETER IDENTIFICATION SECTION:                                                                          PAGE 02
NAME            SPHERE          METHOD          UNITS           DATA AMOUNT         FREQUENCY     HEIGHT/DEPTH   REMARKS
............... ............... ............... ............... ................... ............. ............. ...............
 BENTHIC
 ANIMALS
APPARENT OXYGEN WATER           TITRATION       PPT
 UTILIZATION                                                    35       OBS        MONTHLY       SURFACE
SPECIES         BOTTOM          KEY
 DETERMINATION                                                  35       OBS        MONTHLY       SURFACE
 OF BENTHIC
 ANIMALS
SPECIES         BOTTOM          KEY
 DETERMINATION                                                  35       OBS        MONTHLY       SURFACE
 OF BENTHIC
 PLANTS
STOMACH CONTENT BOTTOM          VISUAL
 OF BENTHIC                                                     35       OBS        MONTHLY       SURFACE
 ANIMALS
```

004677

ANNUAL ANGIOSPERM PRODUCTION ON A SALT MARSH

DATA COLLECTED: JUNE 1960 TO NOVEMBER 1960

RECEIVED: AUGUST 15, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., DELAWARE, LEWES, CANARY CREEK MARSH, COASTAL

ABSTRACT:

QUANTITATIVE MEASUREMENTS WERE MADE IN SELECTED AREAS ON THE CANARY CREEK SALT MARSH TO DETERMINE THE QUANTITY OF ANGIOSPERM PLANT MATERIAL PRODUCED DURING THE 1960 GROWING SEASON. THE MARSH WAS FOUND TO PRODUCE 445 GRAMS AT A RATE OF 5.32 GRAMS PER DAY OF DRY WEIGHT PER SQUARE METER.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
34 PAGES

FUNDING:
UNIVERSITY OF DELAWARE RESEARCH FOUNDATION, INC.

INVENTORY: .

PUBLICATIONS:
MARSHA H. MORGAN, 1961 UNPUBLISHED M.S. THESIS

CONTACT:
INTERLIBRARY LOAN   302 738 2236
MORRIS LIBRARY, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
7307854170

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	24	STATIONS			
TIME	EARTH	STATION TIME	YMD	8	STATIONS	BIWEEKLY		
GROWTH STUDIES OF BENTHIC PLANTS	BOTTOM	VISUAL	GM/M2	24	OBS	BIWEEKLY	SURFACE	8 TOTAL HARVESTS
YIELD OF BENTHIC PLANTS	BOTTOM	PLANT WEIGHT	GM/M2	24	OBS	BIWEEKLY	SURFACE	8 TOTAL HARVESTS

008423

MOSQUITOES AND WILDLIFE IN IMPOUNDMENTS

DATA COLLECTED: JANUARY 1959 TO OCTOBER 1960

RECEIVED: AUGUST 27, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., DELAWARE, KENT COUNTY, LITTLE CREEK WILDLIFE AREA

ABSTRACT:

THIS STUDY DETERMINES THE MOSQUITO BREEDING POTENTIAL OF A PREIMPOUNDED MARSH. IT STUDIES THE CHANGING ECOLOGICAL AND ENVIRONMENTAL CONDITIONS OF A MARSH AFTER IMPOUNDING, AND IT COMPARES THE WILDLIFE UTILIZATION AND MOSQUITO BREEDING POTENTIAL BETWEEN A NATURAL MARSH AND AN IMPOUNDEDMARSH. FROM APRIL, 1959 TO OCTOBER, 1960 THE FOLLOWING PARAMETERS WERE STUDIED IN THE LITTLE CREEK WILDLIFE AREA: PH, SALINITY, AIR AND WATER TEMPERATURE, WATER DEPTH, RAINFALL, SPECIATION OF FISH, VEGETATION, WILDLIFE, AND MOSQUITOES.

DATA AVAILABILITY:
AVAILABLE UPON REQUEST FROM FRANK MURPHY IN THE DEPARTMENT OF ENTOMOLOGY, UNIVERSITY OF DELAWARE

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
121 PAGES

FUNDING:
UNIVERSITY OF DELAWARE

84

INVENTORY:

PUBLICATIONS:

CONTACT:
FRANK MURPHY 302 738 2526
DEPARTMENT OF ENTOMOLOGY
UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
7307951200

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATIONS	45	STATIONS	WEEKLY	WATER SURFACE	
TIME	EARTH	STATION TIME	YMD	45	OBS	WEEKLY	WATER SURFACE	
SPECIES DETERMINATION OF INSECTS	LAND	KEY		45	OBS	WEEKLY	WATER SURFACE	IMMATURE MOSQUITOES
COUNT OF INSECTS	LAND	VISUAL		45	OBS	WEEKLY	WATER SURFACE	IMMATURE MOSQUITOES
SPECIES DETERMINATION OF BENTHIC	BOTTOM	KEY		45	OBS	WEEKLY	WATER SURFACE	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
PLANTS COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL		45 OBS	WEEKLY	WATER SURFACE	
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY		45 OBS	WEEKLY	WATER SURFACE	
COUNT OF PELAGIC FISH	WATER	VISUAL		45 OBS	WEEKLY	WATER SURFACE	
SPECIES DETERMINATION OF MAMMALS	WATER	KEY		45 OBS	WEEKLY	WATER SURFACE	
COUNT OF MAMMALS	WATER	VISUAL		45 OBS	WEEKLY	WATER SURFACE	
PH	WATER	PH METER	PH UNITS	45 OBS	WEEKLY	WATER SURFACE	
SALINITY	WATER	CONDUCTIVITY	PPM	45 OBS	WEEKLY	WATER SURFACE	
TEMPERATURE	WATER	REVERSING THERMOMETER	DEG C	45 OBS	WEEKLY	WATER SURFACE	
TEMPERATURE	AIR	MERCURY THERMOMETER	DEG F	45 OBS	WEEKLY	WATER SURFACE	
BATHYMETRY	WATER	LEAD LINE	FEET	45 OBS	WEEKLY	WATER SURFACE	
PRECIPITATION AMOUNT	AIR	RAIN GAGE	INCHES	45 OBS	WEEKLY	WATER SURFACE	

65

003571

EURASIAN MILFOIL COMMUNITY METABOLISM, KITTY HAWK BAY, NORTH CAROLINA
DATA COLLECTED: JUNE 1974 TO JULY 1974

RECEIVED: MAY 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NORTH CAROLINA, KITTY HAWK BAY

ABSTRACT:
A STUDY OF METABOLISM IN A EURASIAN WATER MILFOIL COMMUNITY. WATER MONITORING INCLUDES DISSOLVED OXYGEN, NITRATE, AMMONIA, NITRITE, AND PHOSPHORUS AT KITTY HAWK BAY, NORTH CAROLINA.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
THIRTY PAGES

FUNDING:
EAST CAROLINA UNIVERSITY

INVENTORY:

PUBLICATIONS:
HALL, A. 1975. COMMUNITY METABOLISM IN A EURASIAN WATER MILFOIL COMMUNITY. M.S. THESIS

66

CONTACT:
LIBRARIAN 19 758 6718
EAST CAROLINA UNIVERSITY
DEPARTMENT OF BIOLOGY
GREENVILLE NORTH CAROLINA USA 27834

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	2	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	2	STATIONS	WEEKLY		EIGHT TWENTY-FOUR HOUR STATIONS IN TWO MONTHS WITH SAMPLES EVERY THREE HOURS DURING TWENTY-FOUR HOUR PERIOD
SPECIES DETERMINATION	BOTTOM	KEY		2	STATIONS	WEEKLY		EURASIAN WATER MILFOIL

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
OF BENTHIC PLANTS							
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	NUMBER PER SPECIES	2 STATIONS	WEEKLY		EURASIAN WATER MILFOIL
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	2 STATIONS	WEEKLY	BOTTOM	WINKLER
NITRATE	WATER	TITRATION		2 STATIONS	WEEKLY		
AMMONIA	WATER	TITRATION		2 STATIONS	WEEKLY		
NITRITE	WATER	TITRATION		2 STATIONS	WEEKLY		
PHOSPHORUS	WATER	COLORIMETRY		2 STATIONS	WEEKLY		

EURASIAN WATER MILFOIL COMMUNITY IN EASTERN NORTH CAROLINA
DATA COLLECTED: JUNE 1974 TO JULY 1974

RECEIVED: MAY 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NORTH CAROLINA, CURRITUCK SOUND, ALBEMARLE SOUND

ABSTRACT:

A STUDY OF BIOMASS AND POPULATION DENSITY OF A EURASIAN WATER MILFOIL COMMUNITY PRIOR TO AND FOLLOWING 24-D TREATMENT IN CURRITUCK AND ALBEMAMLE SOUNDS OF NORTH CAROLINA.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
THIRTY PAGES

FUNDING:
EAST CAROLINA UNIVERSITY

INVENTORY:

PUBLICATIONS:
GETSINGER, K. 1975. CHANGES IN STRUCTURE AND METABOLISM IN A MYRIOPHYLLUM SPICATUM L. COMMUNITY FOLLOWING 2, 4-D TREATMENT.
M.S. THESIS

CONTACT:
LIBRARIAN 919 758 6718
EAST CAROLINA UNIVERSITY
DEPARTMENT OF BIOLOGY
GREENVILLE NORTH CAROLINA USA 27834

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	3 STATIONS			
TIME	EARTH	STATION TIME	YMD	3 STATIONS	MONTHLY		
SPECIES DETERMINATION OF BENTHIC PLANTS	BOTTOM	KEY		3 STATIONS	MONTHLY		EURASIAN WATER MILFOIL
BIOMASS OF BENTHIC PLANTS	BOTTOM	DRY WEIGHT	GRAMS PER SQUARE METER	3 STATIONS	MONTHLY		EURASIAN WATER MILFOIL
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	NUMBER PER SPECIES	3 STATIONS	MONTHLY		EURASIAN WATER MILFOIL

003553

BIOLOGICAL REPORTS FOR PERMIT APPLICATIONS TO ALTER MARSHLANDS, ESTUARINE BOTTOMS, TIDELANDS, AND STATE-OWNED LAKES OF NORTH CAROLINA

DATA COLLECTED: JANUARY 1970 TO PRESENT

RECEIVED: APRIL 02, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NORTH CAROLINA, COASTAL

ABSTRACT:

BIOLOGICAL REPORTS WHICH DETERMINE EFFECTS OF BUILDING AND DREDGING PROJECTS ON COASTAL MARSH LANDS, ESTUARINE BOTTOMS, TIDELANDS AND STATE-OWNED LAKES OF NORTH CAROLINA. AERIAL PHOTOGRAPHY IS USED TO MONITOR ANY BUILDING OR DREDGING PERMIT VIOLATIONS.

DATA AVAILABILITY:
NO RESTRICTIONS

PLATFORM TYPES:
SHIP; AIRCRAFT

ARCHIVE MEDIA:
REPORTS
ONE 35 PAGE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:

89

CONTACT:

JAMES T. BROWN 919 726 7021
NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
DIVISION OF COMMERCIAL AND SPORTS FISHERIES P.O. BOX 769
MOOREHEAD CITY NORTH CAROLINA USA 28557

GRID LOCATOR (LAT):
730738 730739 730745 730746 730747 730755 730756 730765

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	250	STATIONS			
TIME	EARTH	STATION TIME KEY	YMD	250	STATIONS	YEARLY		
SPECIES DETERMINATION OF BENTHIC PLANTS	BOTTOM			250	STATIONS	YEARLY		DESCRIBES MARSH TYPE
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	NUMBER PER SPECIES	250	STATIONS	YEARLY		AERIAL PHOTOGRAPHY USED TO DETERMINE IF ENVIRONMENT ALTERED

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY		250	STATIONS	YEARLY		
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY		250	STATIONS	YEARLY		

ANNEX III

Part A

Section 2

Aerial Photographs

Aerial photographs represent the bulk of the existing data files. More than half (75) of the 142 files were initiated prior to January 1, 1973. Of these, only three are pre-1970, including a coastal survey of the United States from 1927 to present, a North Carolina beach erosion study from 1938 to 1971 and a North Carolina coastal survey from 1957 to 1959. All these files are included because they may be useful in detecting historic trends, submerged aquatic vegetation presence and mapping distributions.

A photographic file includes one or more flights or missions which may take from several pictures to several hundred pictures. Most flights originate from NASA's Wallops Island Flight Center, Virginia. Altitudes vary from 250 to 17,500 feet. Most photographs are color (120 files) which give the best characterization of submerged aquatic vegetation. Other files are strictly black and white (6) or infrared (15). Of the two, black and white is better for identifying the subject.

The files are divided as follows:

General - 1 file; coastal survey of the United States.

Delaware - 13 files.

District of Columbia - 22 files; surveys of Dutch Elm Disease, possibly containing valuable information of submerged aquatic vegetation in the upper Potomac River.

Maryland

- Shoreline - 10 files; water-land interface including wetlands.
- Rivers - 31 files; arranged alphabetically.
- Cities - 3 files.
- Oceanside - 3 files.
- Maryland-Virginia - 15 files; missions flown over both Maryland and Virginia.

North Carolina - 5 files.

Pennsylvania - 1 file.

Virginia

- General - 2 files; western shore Chesapeake Bay, Virginia and Virginia wetlands.
- Rivers - 18 files; arranged alphabetically.
- Bay - 8 files; most concern the area at the head of the Bay.
- Oceanside - 10 files.

ANNEX III

Part A

Section 2

"General"

001767

AERIAL PHOTOGRAPHS

DATA COLLECTED: 1927 TO PRESENT

PAGE 01

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, NORTH PACIFIC OCEAN, U.S., COASTAL, MAINE, NEW HAMPSHIRE, MASSACHUSETTS, RHODE ISLAND, CONNECTICUT, NEW YORK, NEW JERSEY, PENNSYLVANIA, DELAWARE, MARYLAND, DISTRICT OF COLUMBIA, VIRGINIA, NORTH CAROLINA, SOUTH CAROLINA, GEORGIA, FLORIDA, ALABAMA, MISSISSIPPI, LOUISIANA, TEXAS, CALIFORNIA, OREGON, WASHINGTON, ALASKA, HAWAII

ABSTRACT:
THIS FILE CONTAINS AERIAL PHOTOGRAPHS USED BY THE NATIONAL OCEAN SURVEY IN CONNECTION WITH NAUTICAL AND AERONAUTICAL CHARTING PROGRAMS. PHOTOGRAPHS ARE AVAILABLE FOR MOST OF THE COASTAL AREAS OF THE UNITED STATES. AERIAL PHOTOGRAPHS ARE AVAILABLE AS CONTACT PRINTS, ENLARGEMENTS, FILM POSITIVES, NEGATIVES; SOME COLOR PHOTOGRAPHY IS AVAILABLE FOR SOME REGIONS. SINGLE-LENS PHOTOGRAPHS ARE USUALLY TAKEN AT 1:10,000, 1:20,000, 1:24,000, 1:30,000 OR 1:40,000 SCALE. THE SCALES ARE APPROXIMATE DUE TO SHRINKAGE OR EXPANSION OF PAPER, UNCERTAINTY IN REPORTED FLIGHT ALTITUDE, TIP AND TILT OF THE AIRCRAFT AND THE EFFECT OF GROUND RELIEF.

DATA AVAILABILITY:
ALL PHOTOGRAPHS AVAILABLE AT COST OF REPRODUCTION. CONTACT PRINTS $2.00 EACH. ENLARGEMENTS $4.00 TO $8.00. COLOR PHOTOGRAPHS $7.00 EACH.

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
ALL PHOTOS AVAILABLE AT COST OF REPRODUCTION. CONTACT PRINTS $3.00 EACH. ENLARGEMENTS $8.00. COLOR PHOTOS $9.00 EACH.

FUNDING:

INVENTORY:

PUBLICATIONS:
LEAFLET: NATIONAL OCEAN SURVEY - REPRODUCTIONS OF AERIAL PHOTOGRAPHS - AVAILABLE FREE. INDEX OF PHOTOGRAPHY ON 1:250,000 BASE MAPS AVAILABLE AT $0.50 UPON REQUEST.

CONTACT:
CHIEF, PHOTOMAP AND IMAGERY INFORMATION SECTION   301 496 9601
NATIONAL OCEAN SURVEY
6001 EXECUTIVE BOULEVARD
ROCKVILLE   MARYLAND USA   20852

GRID LOCATOR (LAT):
```
740648 740657 740647 740646 740656 740649 740639 740730 740720 740710 740619 740711 740712 740713 740702 740703 740704 740705
730794 730795 730796 730797 730784 730785 730786 730787 730775 730776 730777 730765 730766 730755 730756 730757 730746 730747
730748 730737 730738 730739 730810 730811 730801 720890 720891 720892 720893 720894 720895 720880 720881 720882 720870 720872
720860 720861 720862 720850 720851 720840 720841 720842 720985 720986 720987 720976 720977 720967 720957 731127 731128 731250
731251 731261 731262 731272 731281 731282 731283 731293 731284 741204 741214 741224 741234 741244 741253 741254 741263 741264
741272 741273 741274 741282 741283 741284 741285 7512 7513 7514 7515 7516 7517 7613 7614 7615 7616 7617 7713 7714 7715 7716
711595 711594 711595 711596 721505 721506 721507 731137 731138 731139 731230 731148 731149 731240 721516 721517 721518 721519
721610 721529 721620
```

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
TIME	EARTH	STATION TIME	YMDL	39 YRS			
POSITION	EARTH	FIXED POINT		39 YRS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT		39 YRS		SURFACE	ONE PRINT ON FILE FOR MOST AREAS OF THE U.S. COAST
PHOTOGRAPH	EARTH	BLACK AND WHITE CAMERA FROM AIRCRAFT		39 YRS		SURFACE	ONE PRINT ON FILE FOR MOST AREAS OF THE U.S. COAST
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT		39 YRS		SURFACE	ONE PRINT ON FILE FOR MOST AREAS OF THE U.S. COAST

ANNEX III

Part A

Section 2

Delaware

DELAWARE WETLANDS, COASTAL, AND MARINE STUDIES, COLLEGE OF MARINE STUDIES,
UNIVERSITY OF DELAWARE
DATA COLLECTED: JULY 1973 TO JULY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:
LANDSAT

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, DELAWARE BAY

ABSTRACT:

MISSION W218, FLT. 1, JULY 7, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH T-11 AERIAL MAPPING CAMERA AND AN I2S CAMERA SYSTEM IN COOPERATION WITH COLLEGE OF MARINE STUDIES OF UNIV. OF DEL. OBJECTIVE - TO OBTAIN INTERMEDIATE ALTITUDE IMAGERY OF DEL. COASTLINE OF DEL. BAY AND TRANSECTS OF BAY AT COHANSEY RIVER-BOMBAY HOOK AND AT CAPE MAY-CAPE HENLOPEN. FLIGHT MADE TO COINCIDE WITH ERTS OVERPASS AND IN SUPPORT OF GROUND TRUTH TEAMS TAKING WATER SAMPLES FROM NASA WALLOPS HELICOPTER AND UNIV. OF DEL. POWER BOATS. WEATHER - HAZY, AIR TEMP. 6 DEG. C AT 11,500 FT. MSL WITH WIND OF 14 KNOTS FROM 300 DEG. (MISSION NO W218, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
300 2.7" X 2.7" AND 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730795 730785 730784 730794

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	4	STATIONS			4 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	300	OBS		11500 FT	100 MM AND 152 MM FOCAL LENGTH

001260

UNIVERSITY OF DELAWARE COASTAL ZONE STUDIES
DATA COLLECTED: AUGUST 1972 TO AUGUST 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:
LANDSAT

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, DELAWARE BAY, DELAWARE, NEW CASTLE TO OCEAN CITY

ABSTRACT:

MISSION W160, FLT. 2, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH ONE T-11 AERIAL CAMERA ON AUG. 22, 1972, IN COOPERATION WITH COLLEGE OF MARINE SCI., UNIV. OF DEL. ALONG COAST ZONES OF DEL. RIVER AND DEL.-MD. ATLANTIC COASTAL REGIONS. OBJECTIVE - TO USE REMOTELY SENSED FALSE-COLOR IMAGERY TO EVALUATE COASTAL ZONE AQUATIC SPECIES IDENTIFICATION AND DISTRIBUTION IN PREPARATION FOR ERTS OVERPASSES. FLIGHT IN GOOD WEATHER WITH NO OVERCAST, VISIBILITY 10-12 MILES, AIR TEMP. 10 DEG. C AT 11,500 FT., MSL WITH WIND OF 5 KNOTS FROM 310 DEG. (MISSION NO W160, FLT 2)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
79 9" X 9" FRAMES.

FUNDING:

98

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONS: 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730795 730785 730784

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	2	STATIONS			2 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	79	OBS		11500 FT	6 INCH FOCAL LENGTH

006649

DELAWARE RIVER POWER PLANT THERMAL PLUMES STUDY

DATA COLLECTED: NOVEMBER 1971 TO NOVEMBER 1971

RECEIVED: AUGUST 30, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NEW JERSEY, DELAWARE RIVER

ABSTRACT:

MISSION W093, FLIGHT01, WAS ACCOMPLISHED ON NOVEMBER 11, 1971, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL MAPPING CAMERA AND AN RS-7 THERMAL INFRARED SCANNER AND A PRT-5 PRECISION RADIATION THERMOMETER. THE FLIGHT WAS MADE IN COOPERATION WITH THE WATERWAYS EXPERIMENT STATION OF THE CORPS OF ENGINEERS AT VICKSBURG, MISSISSIPPI., THE OBJECTIVE OF THE FLIGHT WAS TO DEFINE THE LOCATION AND EXTENT OF THERMAL DISCHARGE PLUMES FROM DEEPWATER, EDDYSTONE, AND BURLINGTON FOSSIL FUEL ELECTRIC GENERATING PLANTS.
(MISSION W093, FLIGHT01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
130 9" X 9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

99

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER   804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
74070415 73079555

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	130	OBS			
TIME	EARTH	STATION TIME	YMD	130	OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	130	OBS	1 FLIGHT PER LINE	2500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	130	OBS	1 FLIGHT PER LINE	2500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

```
      PARAMETER IDENTIFICATION SECTION:

NAME             SPHERE          METHOD            UNITS             DATA AMOUNT          FREQUENCY       HEIGHT/DEPTH    REMARKS
................ ............... ................. ................. .................... ............... ............... ...............

TEMPERATURE      WATER           INFRARED SCANNER  DEG C             130      OBS         1 FLIGHT PER
                                                                                           LINE
```

DELAWARE RIVER POWER PLANT THERMAL PLUMES STUDY WATERWAYS EXPERIMENT STATION, U
S ARMY CORPS OF ENG
DATA COLLECTED: NOVEMBER 1971 TO NOVEMBER 1971

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, DELAWARE BAY, DELAWARE RIVER

ABSTRACT:

MISSION W093, FLT. 1, NOV. 11, 1971, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL MAPPING CAMERA, AN RS-7 THERMAL INFRARED SCANNER AND A PRT-5 PRECISION RADIATION THERMOMETER. FLIGHT MADE IN COOPERATION WITH WATERWAYS EXPERIMENT STATION OF CORPS OF ENGINEERS AT VICKSBURG, MISSISSIPPI. OBJECTIVE - TO DEFINE THE LOCATION AND EXTENT OF THERMAL DISCHARGE PLUMES FROM DEEPWATER, EDDYSTONE AND BURLINGTON FOSSIL FUEL ELECTRIC GENERATING PLANTS. (MISSION NO W093, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
134 9" X 9" FRAMES AND SCANNER FILM.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI   804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730796 740704

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1 STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	28 STATIONS			28 FLIGHT LINES
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	134 OBS		2500 FT	152 MM FOCAL LENGTH, SCANNER, 26 FLIGHT LINES AND A THERMISTO R BOLOMETER

007220

DEEPWATER THERMAL POWER PLANT STUDY-DELAWARE
DATA COLLECTED: MARCH 1972 TO MARCH 1972

RECEIVED: SEPTEMBER 16, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., DELAWARE

ABSTRACT:

MISSION W115, FLIGHT 01, WAS ACCOMPLISHED ON MARCH 27, 1972, UTILIZING A WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL MAPPING CAMERA AND A AAD-2 THERMAL IR SCANNER, IN COOPERATION WITH THE U.S. ARMY ENGINEER WATERWAYS EXPERIMENT STATION. THE OBJECTIVE OF THE FLIGHT WAS TO IMAGE TIDAL CHANGES IN THE POSITION, EXTENT, AND INTENSITY OF THERMAL PLUMES EMITTED BY THE DEEPWATER POWER PLANT THROUGHOUT A TIDAL CYCLE. THE IR SCANNER PRINTS DID NOT TAKE. (MISSION W115, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
262 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

102

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73079555 73079554

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	262	OBS			
TIME	EARTH	STATION TIME	YMD	262	OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	262	OBS	1 FLIGHT PER LINE	1000, 2500 & 10,000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

000182 BOMBAY HOOK NATIONAL WILDLIFE REFUGE BASE LINE STUDY
DATA COLLECTED: OCTOBER 1970 TO OCTOBER 1970
RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE BAY, DELAWARE BOMBAY HOOK ISLAND

ABSTRACT:

MISSION W029, FLT. 1, OCTOBER 19, 1970, WITH WALLOPS STATION CHARTERED BELL 205 HELICOPTER EQUIPPED WITH A POD OF 4 T-11 AERIAL MAPPING CAMERAS. FLIGHT MADE FOR CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE FOR PURPOSE OF OBTAINING BASE LINE REMOTE SENSOR DATA OVER THE BOMBAY HOOK WILDLIFE REFUGE BETWEEN THE SMYRNA RIVER AND LITTLE RIVER ON DELAWARE SHORE OF DELAWARE BAY. FLIGHT IN CLEAR WEATHER, SLIGHT HAZE, AIR TEMP. 0 DEG. C AT 10,000 FT., MSL WITH WIND OF 28 KNOTS FROM 280 DEG. (MISSION NO W029, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
108 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			2 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	2	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	108	OBS		10000 FT	6 INCH FOCAL LENGTH

001278

BRANDYWINE RIVER POLLUTION STUDY

DATA COLLECTED: JUNE 1973 TO JUNE 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, DELAWARE BAY, DELAWARE, BRANDYWINE RIVER

ABSTRACT:

MISSION W224, FLT. 1, JUNE 12, 1973, WALLOPS STATION C-54 AIRCRAFT WITH TWO T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH THE U. S. GEOLOGICAL SURVEY AND CHESTER COUNTY, PENN. HEALTH DEPT. OBJECTIVE - TO PROVIDE SUPPORT TO CHESTER COUNTY HEALTH DEPT. IN LOCATING POSSIBLE SOURCES OF ANIMAL AND/OR HUMAN WASTE MATERIALS IN CHADS FORD AREA OF BRANDYWIND RIVER. (MISSION NO W224, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
72 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

104

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	1	STATIONS			1 FLIGHT LINE
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	72	OBS		5500 FT	152 MM FOCAL LENGTH

000201

BRANDYWINE RIVER POLLUTION STUDY
DATA COLLECTED: JULY 1973 TO JULY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE BAY, DELAWARE, BRANDYWINE RIVER

ABSTRACT:

MISSION W225, FLT. 1, JULY 5, 1973, WITH WALLOPS STATION HELICOPTER EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH CHESTER COUNTY HEALTH DEPT. AND THE U.S. GEOLOGICAL SURVEY. OBJECTIVE - TO OBTAIN LARGE SCALE AERIAL PHOTOGRAPHY OF BRANDYWINE RIVER FROM ITS CONFLUENCE WITH THE DELAWARE RIVER AND INTERSECTION OF PENN. RT. 162 WITH ITS EAST AND WEST BRANCHES. IMAGERY TO BE USED FOR LOCATING POLLUTION OUTFALLS ON RIVER AND FOR LOCATING POSSIBLE DUMPING SITES OF ANIMAL OR HUMAN WASTE. FLIGHT IN SCATTERED CLOUDS, VISIBILITY UP TO 5 MILES, AIR TEMP. 18 DEG. C AT 1250 FT., MSL WITH WIND OF 10 KNOTS FROM 360 DEG.
(MISSION NO W225, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
490 9" X 9" FRAMES

FUNDING:

105

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			6 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	6	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	490	OBS		304 OBS AT 600 FT, 186 OBS AT 1250 FT	152 MM FOCAL LENGTH

000030

WETLANDS MARSH STUDIES

DATA COLLECTED: MAY 1972 TO MAY 1972

PAGE 01

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, DELAWARE BAY, NEW JERSEY, REHOBOTH

ABSTRACT:
MISSION W128, FLT. 1, WAS ACCOMPLISHED MAY 26, 1972, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS, IN COOPERATION WITH U. S. FISH AND WILDLIFE SERVICE. OBJECTIVE - TO DETERMINE THE FEASIBILITY OF DISTINGUISHING VARIOUS TYPES OF MARSH GRASSES FROM INTERPRETING INFRARED AERIAL FILM. FLIGHT IN CLEAR WEATHER, AIR TEMP. 10 DEG. C AT 4,500 FT., MSL WITH WIND OF 20 KNOTS FROM 040 DEG.
(MISSION W128, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
257 70MM B/W FRAMES.

FUNDING:

INVENTORY:

106

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1 STATIONS			9 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	9 STATIONS			
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	210 OBS		4500 FT	152 MM FOCAL LENGTH

INDIAN RIVER INLET WAVE PATTERN STUDY

DATA COLLECTED: DECEMBER 1973 TO DECEMBER 1973

RECEIVED: DECEMBER 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE, INDIAN RIVER INLET

ABSTRACT:

MISSION W258, FLIGHT 01 WAS ACCOMPLISHED ON 10 DECEMBER, 1974. THE OBJECTIVE OF THE FLIGHT WAS TO STUDY WAVE PATTERNS IN THE INDIAN RIVER INLET AND BETHANY BEACH AREAS OF THE DELAWARE COAST.
(MISSION W258 FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
61 PHOTOPRINTS

FUNDING:
NASA

INVENTORY:

PUBLICATIONS:

CONTACT:

C. WHITLOCK   804 824 3411
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	2 STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHM	2 STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT		2 STATIONS		5,000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

00739C

REHOBETH BAY AND INDIAN RIVER BAY WETLANDS STUDY DELAWARE
DATA COLLECTED: OCTOBER 1973 TO OCTOBER 1973

RECEIVED: NOVEMBER 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE

ABSTRACT:

MISSION W244, FLIGHT 01, WAS ACCOMPLISHED ON OCTOBER 15, 1973, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH THE COLLEGE OF MARINE STUDIES OF THE UNIVERSITY OF DELAWARE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN COLOR AND FALSE COLOR INFRARED PHOTOGRAPHY OF THE DELAWARE WETLANDS SURROUNDING REHOBETH AND INDIAN RIVER BAYS. THIS IMAGERY WILL BE USED IN MAPPING SPECIES, LOCATION AND EXTENT OF WETLAND VEGETATION IN THESE BAY AREAS. (MISSION W244, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
266, 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078551 73078541 73078531

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	266	OBS			
TIME	EARTH	STATION TIME	YMD	266	OBS	5 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	266	OBS	5 FLIGHTS PER LINE	6000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	266	OBS	5 FLIGHTS PER LINE	6000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

001259

U S FISH AND WILDLIFE SERVICE WETLAND STUDIES
DATA COLLECTED: AUGUST 1972 TO AUGUST 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, DELAWARE BAY, DELAWARE, REHOBOTH AND INDIAN RIVER

ABSTRACT:

MISSION W160, FLT. 1 WITH WALLOPS STATION C54 AIRCRAFT EQUIPPED WITH ONE T-11 AERIAL CAMERA ON AUG. 22, 1972, IN COOPERATION WITH DEPT. OF INTERIOR, U. S. FISH AND WILDLIFE SERVICE IN REHOBOTH AND INDIAN RIVER, DEL. AREA. OBJECTIVE - TO USE REMOTELY SENSED FALSE-COLOR IMAGERY TO EVALUATE CULTURAL MODIFICATIONS OF TIDAL MARSHLANDS AND DEVELOP ENVIRONMENTAL IMPACT ANALYSIS OF THIS PORTION OF THE DEL. COASTAL ZONE ENVIRONMENT. FLIGHT IN GOOD WEATHER, NO OVERCAST, LIGHT HAZE, AIR TEMP. 18 DEG. C AT 3500 FT., MSL WIND OF 16 KNOTS FROM 310 DEG.
(MISSION NO W160, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
91 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	10	STATIONS			10 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	91	OBS		3500 FT	6 INCH FOCAL LENGTH

007235

PROJECTS:

INDIAN RIVER INLET WAVE STUDY
DATA COLLECTED: AUGUST 1973 TO AUGUST 1973

RECEIVED: OCTOBER 19, 1976

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE, MARYLAND

ABSTRACT:

MISSION W229, FLIGHT 02, WAS ACCOMPLISHED ON AUGUST 17, 1973, UTILIZING THE WALLOPS STATION C54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL MAPPING CAMERA AND A HELIUM NEON LASER IN COOPERATION WITH THE NASA LANGLEY RESEARCH CENTER AND THE COLLEGE OF MARINE STUDIES AT THE UNIVERSITY OF DELAWARE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN AERIAL PHOTOGRAPHY AND LASER PROFILES OF WAVES APPROACHING INDIAN RIVER BAY, DELAWARE FROM A DISTANCE OF 50 MILES OFF SHORE UP TO THE INDIAN RIVER INLET. (MISSION W229, FLIGHT 02)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
45, 9"X9" PRINTS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078541 73078542 73078543 73078544 73078545 73078520

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	STATIONS	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	2				
TIME	EARTH	STATION TIME	YMD	2	OBS	1 FLIGHT		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	2	OBS	1 FLIGHT	5000 & 500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
WAVE AMPLITUDE	WATER	LASER		2	OBS	1 FLIGHT		
WAVE DIRECTION	WATER	LASER		2	OBS	1 FLIGHT		
WAVE SPEED	WATER	LASER		2	OBS	1 FLIGHT		
WAVE PERIOD	WATER	LASER		2	OBS	1 FLIGHT		

ANNEX III

Part A

Section 2

District of Columbia

111

008661

DUTCH ELM DISEASE STUDY-WASHINGTON, D.C.
DATA COLLECTED: SEPTEMBER 1974 TO SEPTEMBER 1974

RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., WASHINGTON, D.C.

ABSTRACT:

MISSION W286, FLIGHT 01, WAS ACCOMPLISHED ON SEPTEMBER 19, 1974, UTILIZING THE WALLOPS FLIGHT STATION C-54 AIRCRAFT EQUIPPED WITH AN I2S "B" MULTISPECTRAL CAMERA AND A T-11 AERIAL MAPPING CAMERA IN COOPERATION WITH THE ECOLOGICAL SERVICES LABORATORY OF THE NATIONAL CAPITAL PARKS SERVICE. THIS WAS ONE OF A SERIES OF REMOTE SENSING FLIGHTS MADE OVER THE POTOMAC PARK AND TIDAL BASIN IN WASHINGTON, D.C.. THE PURPOSE OF THE FLIGHT IS TO COMPILE A PERMANENT RECORD OF THE VARIOUS STAGES THAT ELM TREES GO THROUGH WHEN UNDERGOING DUTCH ELM DISEASE INFESTATION.
(MISSION W286, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
296 70MM PRINTS;152 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

112

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078750

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	448 OBS			
TIME	EARTH	SAMPLING TIME	YMDHM	448 OBS	6 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	296 OBS	6 FLIGHTS PER LINE	1500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	152 OBS	1500 FEET	100 MM FOCAL LENGTH	

008662

DUTCH ELM DISEASE STUDY-WASHINGTON, D.C.
DATA COLLECTED: AUGUST 1974 TO AUGUST 1974

RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., WASHINGTON, D.C.

ABSTRACT:

MISSION W285, FLIGHT 01, WAS ACCOMPLISHED ON AUGUST 29, 1974, UTILIZING THE WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH AN I2S "B" MULTISPECTRAL CAMERA SYSTEM AND A T-11 AERIAL MAPPING CAMERA, IN COOPERATION WITH THE ECOLOGICAL SERVICES LABORATORY OF THE NATIONAL CAPITOL PARKS SERVICE. THIS WAS ONE FLIGHT OF AN ON-GOING REMOTE SENSING PROGRAM DESIGNED TO STUDY THE DETECTION AND EFFECTS OF THE DUTCH ELM DISEASE ON ELM TREES IN THE POTOMAC PARK AREA OF WASHINGTON, D.C.. (MISSION W285, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
316 70MM PRINTS; 82 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

1|3

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078750

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	398	OBS			
TIME	EARTH	SAMPLING TIME	YMDHM	398	OBS	5 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	316	OBS	5 FLIGHTS PER LINE	1500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	82	OBS	5 FLIGHTS PER LINE	1500 FEET	100MM FOCAL LENGTH

008663

CONTROLLED DUTCH ELM DISEASE STUDY-WASHINGTON, D.C.
DATA COLLECTED: AUGUST 1974 TO AUGUST 1974

RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., WASHINGTON, D.C.

ABSTRACT:

MISSION W284, FLIGHT 01, WAS ACCOMPLISHED ON AUGUST 12, 1974, UTILIZING THE WALLOPS FLIGHT CENTER BELL UH1H HELICOPTER EQUIPPED WITH AN I2S "B" MULTISPECTRAL CAMERA SYSTEM AND THREE T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH THE ECOLOGICAL SERVICES LABORATORY OF THE CAPITAL PARK SERVICE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN LARGE SCALE IMAGERY OF ELM TREES THAT HAVE BEEN INNOCULATED WITH A DUTCH ELM DISEASE AGENT. THESE IMAGES WILL BE STUDIED WITH PREVIOUS FILM AND LATER PHOTOS IN AN EFFORT TO TRACE THE COURSE OF THE DISEASE BY REMOTE SENSING TECHNIQUES. (MISSION W284, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
105 9"X9"PRINTS; 140 70MM PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

174

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078750

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	245	OBS			
TIME	EARTH	SAMPLING TIME	YMDHM	245	OBS	7 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	105	OBS	7 FLIGHTS PER LINE	500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	140	OBS	7 FLIGHTS PER LINE	500 FEET	100MM FOCAL LENGTH

008664

DUTCH ELM DISEASE STUDY-WASHINGTON, D.C.
DATA COLLECTED: JULY 1974 TO JULY 1974

RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., WASHINGTON, D.C.

ABSTRACT:

MISSION W263, FLIGHT 01, WAS ACCOMPLISHED ON JULY 30, 1974, UTILIZING THE WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS AND AN I2S "B" MULTISPECTRAL CAMERA SYSTEM IN COOPERATION WITH THE ECOLOGICAL SERVICES LABORATORY OF THE NATIONAL CAPITOL PARKS SERVICE. THIS WAS ONE OF A SERIES OF REMOTE SENSING FLIGHTS OF DISEASED ELM TREES IN THE WASHINGTON, D.C. AREA. THE FLIGHTS ARE MADE THROUGHOUT THE GROWING SEASON IN ORDER TO PROVIDE A DOCUMENTED HISTORY OF THE DISEASED TREES FROM INCEPTION OF THE DISEASE UNTIL THE LESS OF FOLIAGE. (MISSION W263, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
64 70MM PRINTS; 32 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078750

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	96	OBS			
TIME	EARTH	SAMPLING TIME	YMDHM	96	OBS	12 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	64	OBS	12 FLIGHTS PER LINE	500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	32	OBS	12 FLIGHTS PER LINE	500 FEET	100MM FOCAL LENGTH

G08665

CONTROLLED DUTCH ELM DISEASE STUDY-WASHINGTON, D.C.
DATA COLLECTED: JULY 1974 TO JULY 1974

RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., WASHINGTON, D.C.

ABSTRACT:

MISSION W282, FLIGHT 01, WAS ACCOMPLISHED ON JULY 22, 1974, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH THREE T-11 AERIAL CAMERAS AND AN I2S "B" MULTISPECTRAL CAMERA SYSTEM. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN MULTIBAND PHOTOGRAPHIC IMAGERY OF A GROUP OF AMERICAN ELM TREES ON DANGERFIELD ISLAND THAT HAVE HAD A DUTCH ELM DISEASE INNOCULATION. (MISSION W282, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
508 94MM PRINTS; 387 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER   804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078750

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	892	OBS			
TIME	EARTH	SAMPLING TIME	YMDHM	892	OBS	7 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	508	OBS	7 FLIGHTS PER LINE	500, 1300, 1500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH"
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	387	OBS	7 FLIGHTS PER LINE	500, 1300, 1500 FEET	100MM FOCAL LENGTH

DUTCH ELM DISEASE STUDY-WASHINGTON, D.C.
DATA COLLECTED: JULY 1974 TO JULY 1974

RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., WASHINGTON, D.C.

ABSTRACT:

MISSION W281, FLIGHT 01, WAS ACCOMPLISHED ON JULY 12, 1974, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH AN I2S "B" MULTISPECTRAL CAMERA AND TWO T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH THE ECOLOGICAL SERVICES LABORATORY OF THE CAPITOL PARKS SERVICE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN MULTISPECTRAL IMAGERY OF ELM TREES IN WASHINGTON D.C. AND GREAT FALLS, AND POTOMAC RIVER AREAS.
(MISSION W281, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
577 70MM PRINTS; 342 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078750

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	919	OBS			
TIME	EARTH	SAMPLING TIME	YMDHM	919	OBS	6 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	577	OBS	6 FLIGHTS PER LINE	1500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	342	OBS	6 FLIGHTS PER LINE	1500 FEET	100MM FOCAL LENGTH

008667

DUTCH ELM DISEASE STUDY-WASHINGTON, D.C.
DATA COLLECTED: JULY 1974 TO JULY 1974

RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., WASHINGTON, D.C.

ABSTRACT:

MISSION W280, FLIGHT 01, WAS ACCOMPLISHED ON JULY 3, 1974, UTILIZING THE WALLOPS FLIGHT CENTER 424 HELICOPTER EQUIPPED WITH AN I2S "B" CAMERA SYSTEM, AND THREE T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH THE ECOLOGICAL SERVICES LABORATORY OF THE CAPITOL PARKS SERVICE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN EARLY FOLIAGE IMAGERY OF THE ELM TREES ON DANGERFIELD ISLAND. (MISSION W280, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
60 70MM PRINTS; 45 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

118

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078750

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	105	OBS			
TIME	EARTH	SAMPLING TIME	YMDHM	105	OBS	21 FLIGHTS		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	60	OBS	21 FLIGHTS	600, 1000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	45	OBS	21 FLIGHTS	600, 1000 FEET	100MM FOCAL LENGTH

008670

DUTCH ELM DISEASE STUDY-WASHINGTON, D.C.
DATA COLLECTED: JUNE 1974 TO JUNE 1974

RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., WASHINGTON, D.C.

ABSTRACT:

MISSION W277, FLIGHT 01, WAS ACCOMPLISHED ON JUNE 6, 1974, UTILIZING THE WALLOPS FLIGHT CENTER C-54 EQUIPPED WITH AN I2S "B" CAMERA SYSTEM AND A T-11 AERIAL MAPPING CAMERA IN COOPERATION WITH THE ECOLOGICAL SERVICES LABORATORY OF THE CAPITOL PARKS SERVICE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN EARLY FOLIAGE IMAGERY OF ELM TREES ON EAST AND WEST POTOMAC PARK, THEODORE ROOSEVELT ISLAND, AND DANGERFIELD ISLAND.
(MISSION W277, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
280 70MM PRINTS; 72 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 341:
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078750

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	352	OBS			
TIME	EARTH	SAMPLING TIME	YMDHM	352	OBS	5 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	280	OBS	5 FLIGHTS PER LINE	1,500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	72	OBS	5 FLIGHTS PER LINE	1,500 FEET	100MM FOCAL LENGTH

119

008674

DUTCH ELM DISEASE STUDY-WASHINGTON, D.C.
DATA COLLECTED: JUNE 1974 TO JUNE 1974

RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., WASHINGTON, D.C.

ABSTRACT:

MISSION W292, FLIGHT 01 WAS ACCOMPLISHED ON JUNE 19, 1974, UTILIZING THE WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL MAPPING CAMERA AND AN I2S "B" MULTILENS MAPPING SYSTEM IN COOPERATION WITH THE ECOLOGICAL SERVICES LABORATORY OF THE CAPITAL PARKS SERVICE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN PHOTOGRAPHIC IMAGERY OF HEALTHY AND INFECTED ELM TREES IN THE EAST AND WEST POTOMAC PARK AREAS OF WASHINGTON, D.C.
(MISSION W292, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
320 70MM PRINTS, 80 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078753

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	400	OBS			
TIME	EARTH	SAMPLING TIME	YMDHM	400	OBS	5 FLIGHTS/ LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	320	OBS	5 FLIGHTS/ LINE	1500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	80	OBS	5 FLIGHTS/ LINE	1500 FEET	100MM FOCAL LENGTH

U S PARK SERVICE DUTCH ELM DISEASE STUDY

DATA COLLECTED: OCTOBER 1972 TO OCTOBER 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, WASHINGTON, D C

ABSTRACT:

MISSION W171, FLT. 1, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH ONE T-11 AERIAL CAMERA AND 4 HASSELBLAD CAMERAS ON OCTOBER 3, 1972, AS CONTINUING EFFORT OF MISSION W166 AND W168 IN COOPERATION WITH DEPT. OF INTERIOR, U. S. PARK SERVICE IN WASHINGTON, D.C. OBJECTIVE - TO COLLECT NATURAL COLOR AND MULTI-CHANNEL BLACK AND WHITE REMOTE IMAGERY TO DEVELOP IMAGE COMPOSITES AND ENHANCEMENT TECHNIQUES TO AID IN DISTINGUISHING EARLY STAGES OF LOSS OF PLANT LEAF VIGOR AS RESULT OF DUTCH ELM INFESTATION. FLIGHT, CLEAR WEATHER, VISIBILITY 10-15 MILES, AIR TEMP. 20 DEG. C AT 1500 FT. MSL WITH WIND OF 12 KNOTS FROM 070 DEG.
(MISSION NO W171, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
245 9" X 9" AND 70-MM FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			4 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	4	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	245	OBS		1500 FT	6 INCH AND 40 MM FOCAL LENGTH, MULTI-CHANNEL
PHOTOGRAPH	EARTH	BLACK AND WHITE CAMERA FROM AIRCRAFT	PHOTOGRAPHS	245	OBS		1500 FT	40 MM FOCAL LENGTH, MULTI-CHANNEL

001267

U S PARK SERVICE DUTCH ELM DISEASE STUDY
DATA COLLECTED: AUGUST 1972 TO AUGUST 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, WASHINGTON, D C

ABSTRACT:

MISSION W166, FLT. 1 WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH ONE T-11 AERIAL CAMERA AND ONE FOUR-CHANNEL I2S CAMERA SYSTEM ON AUG. 23, 1972, IN COOPERATION WITH DEPT. OF INTERIOR, U. S. PARK SERVICE IN WASHINGTON, D. C. AREA AND CALIBRATION RUN OVER CALIBRATION TARGETS AT WALLOPS STATION, VA. OBJECTIVE - TO USE MULTI-CHANNEL BLACK AND WHITE AND FALSE-COLOR REMOTE IMAGERY TO INVESTIGATE DUTCH ELM DISEASE IN VARYING LEVELS OF INFESTATION AND DEVELOP TECHNIQUES FOR EARLY SYMPTOM WARNINGS. FLIGHT IN CLEAR WEATHER, MODERATE HAZE, AIR TEMP. 20 DEG. C AT 1500 FT., MSL WITH WIND OF 5 KNOTS FROM 230 DEG. (MISSION NO W166, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
42 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

122

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	4	STATIONS			4 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	4	STATIONS			
PHOTOGRAPH	EARTH	BLACK AND WHITE CAMERA FROM AIRCRAFT	PHOTOGRAPHS	42	OBS		41 OBS AT 1500 FT, 1 OBS AT 500 FT	6 INCH FOCAL LENGTH, MULTI-CHANNEL
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	42	OBS		41 OBS AT 1500 FT, 1 OBS AT 500 FT	100 MM FOCAL LENGTH, MULTI-CHANNEL

000072

DUTCH ELM DISEASE STUDY
DATA COLLECTED: AUGUST 1973 TO AUGUST 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, WASHINGTON, D C

ABSTRACT:

MISSION W236, FLT. 1, AUGUST 8, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS, IN COOPERATION WITH ECOLOGICAL SERVICE LAB. OF NATIONAL CAPITAL PARKS SERVICE. ONE OF A SERIES OF FLIGHTS MADE UVER EAST AND WEST POTOMAC PARKS FOR PURPOSE OF RECORDING SPECTRAL DIFFERENCES BETWEEN HEALTHY AND DISEASED ELM TREES THROUGHOUT A COMPLETE GROWTH CYCLE. FLIGHT MADE IN HAZE WEATHER, VISIBILITY 5-7 MILES, AIR TEMP. +24 DEG. C AT 1,500 FT., MSL WITH WIND OF 10 KNOTS FROM 170 DEG.
(MISSION NO W236, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
150 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
....	....	....	....	....		....	....	....
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	5	STATIONS			5 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	150	OBS		1500 FT	152 MM FOCAL LENGTH

000207

DUTCH ELM DISEASE STUDY
DATA COLLECTED: AUGUST 1973 TO AUGUST 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, WASHINGTON, D C

ABSTRACT:

MISSION W241, FLT. 1, ACCOMPLISHED ON AUG. 23, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH ECOLOGICAL SERVICES LAB. OF NATIONAL CAPITAL PARKS SERVICE. ONE OF A SERIES OF FLIGHTS TAKEN OVER EAST AND WEST POTOMAC PARK AREAS OF WASHINGTON, D.C. FLIGHTS RECORD INCIDENCE AND SPREAD OF DUTCH ELM DISEASE IN PARK. FLIGHT IN SCATTERED WEATHER CONDITIONS. VISIBILITY 8-10 MILES, AIR TEMP. +18 DEG. C AT 1,500 FT., MSL WITH WIND OF 9 KNOTS FROM 330 DEG.
(MISSION NO W241, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
122 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	5	STATIONS			5 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	122	OBS		1500 FT	152 MM FOCAL LENGTH

124

000196

DUTCH ELM DISEASE STUDY

DATA COLLECTED: JUNE 1973 TO JUNE 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, WASHINGTON, D C

ABSTRACT:

MISSION W216, FLT. 1, JUNE 4, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH ECOLOGICAL SERVICES LAB. OF NATIONAL CAPITAL PARK SERVICE. OBJECTIVE - TO OBTAIN NARROW BAND SPECTRAL DATA OF HEALTHY AND DISEASED ELM TREES IN TIDAL BASIN AND WEST POTOMAC PARK AREAS OF WASHINGTON, D.C. FLIGHT IN CLEAR WEATHER WITH MODERATE HAZE, AIR TEMP. +20 DEG. C AT 1500 FT., MSL WITH WIND OF 15 KNOTS FROM 138 DEG.
(MISSION NO W216, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
120 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			4 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	4	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	120	OBS		1500 FT	152 MM FOCAL LENGTH

1205

DUTCH ELM DISEASE STUDY
DATA COLLECTED: JUNE 1973 TO JUNE 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, WASHINGTON, D C

ABSTRACT:

MISSION W219, FLT. 1, JUNE 11, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH ECOLOGICAL SERVICES LAB. OF NATIONAL CAPITAL PARK SERVICE. OBJECTIVE - TO OBTAIN CONTRASTING IMAGERY, BY USE OF PRE-DETERMINED LENS/FILTER COMBINATIONS, OF HEALTHY VS. DISEASED ELM TREES IN EAST POTOMAC PARK AND WEST POTOMAC PARK AREAS. (MISSION NO W219, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
118 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI   804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			4 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	4	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	118	OBS		1500 FT	152 MM FOCAL LENGTH

000198 DUTCH ELM DISEASE STUDY
DATA COLLECTED: JUNE 1973 TO JUNE 1973 RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, WASHINGTON, D C

ABSTRACT:

MISSION W221, FLT. 1, JULY 6, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL MAPPING CMAERAS IN COOPERATION WITH ECOLOGICAL SERVICES LAB. OF NATIONAL CAPITAL PARK SERVICE. ONE OF A SERIES OF FLIGHTS BEING MADE OVER EAST AND WEST POTOMAC PARK AREAS IN WASHINGTON, D.C. OBJECTIVE - TO ACCENTUATE SPECTRAL DIFFERENCES OF REFLECTED LIGHT FROM THE SICK AND HEALTHY TREES BY USE OF PRE-DETERMINED LENS/FILTER COMBINATIONS. FLIGHT IN CLOUDY WEATHER, VISIBILITY 7-10 MILES, AIR TEMP. 20 DEG. C AT 1500 FT., MSL WITH WIND OF 15 KNOTS FROM 350 DEG.
(MISSION NO W221, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
114 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	4	STATIONS			4 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	114	OBS		1500 FT	152 MM FOCAL LENGTH

001204

DUTCH ELM DISEASE STUDY, NATIONAL PARK SERVICE
DATA COLLECTED: MAY 1973 TO MAY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, WASHINGTON, D C

ABSTRACT:

MISSION W207, FLIGHT 1, MAY 10, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH 2 T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH NATIONAL PARK SERVICE. OBJECTIVE - TO OBTAIN EARLY SPRING IMAGERY OF ELM TREES AROUND TIDAL BASIN AND WEST POTOMAC PARK IN WASHINGTON, D C IMAGERY IS TO BE USED IN STUDY OF EARLY IDENTIFICATION OF DUTCH ELM DISEASED TREES USING REMOTE SENSOR DATA IN CONJUNCTION WITH GROUND TRUTH SPECTRAL DATA. WEATHER - CLEAR, VISIBILITY 5 MILES. (MISSION NO W207, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
100 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	4	STATIONS			4 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	100	OBS		1500 FT	152 MM FOCAL LENGTH

000189

U S PARK SERVICE DUTCH ELM DISEASE STUDY
DATA COLLECTED: AUGUST 1972 TO AUGUST 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, WASHINGTON, D C

ABSTRACT:

MISSION W159, FLT. 1, AUGUST 16, 1972, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS IN COOPERATION WITH THE DEPT. OF INTERIOR, U.S. PARK SERVICE IN WASHINGTON, D.C. AREA. OBJECTIVE - TO USE SPECIALLY SELECTED FILTER-FILM COMBINATIONS TO IDENTIFY AND INVENTORY DISEASED DUTCH ELM TREES AND ATTEMPT TO EVALUATE THE TOXICITY OF AUTOMOTIVE EXHAUST FUMES ON DUTCH ELM LEAF. FLIGHT IN CLEAR WEATHER WITH FEW SCATTERED CLOUDS. AIR TEMP. 16 DEG. C AT 1500 FT., MSL WITH WIND OF 12 KNOTS FROM 090 DEG.
(MISSION NO W159, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
104 9" X 9" FRAMES

FUNDING:

INVENTORY:

129

PUBLICATIONS:

CONTACT:
PAUL ALFONSI   804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			7 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	7	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	104	OBS		1500 FT	6 INCH FOCAL LENGTH

001253 U S FOREST SERVICE DUTCH ELM DISEASE STUDY PAGE 01
DATA COLLECTED: AUGUST 1972 TO AUGUST 1972 RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, WASHINGTON, D C

ABSTRACT:

MISSION W154, FLT. 1, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS ON AUG. 3, 1972, IN COOPERATION WITH NATIONAL CAPITOL PARK SERVICE FOR INVESTIGATIONS OF DR. GARY CLEMANS. OBJECTIVE - TO ASSESS THE QUALITY AND VIGOR OF URBAN VEGETATION, SPECIFICALLY THE ELM TREES INFESTED WITH DUTCH ELM DISEASE. FLIGHT IN GOOD WEATHER, NO OVERCAST, SLIGHT HAZE, AIR TEMP. 22 DEG. AT 2500 FT., MSL WITH WIND OF 10 KNOTS FROM 270 DEG.
(MISSION NO W154, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
108 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

130

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			4 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	4	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	108	OBS		2500 FT	6 INCH FOCAL LENGTH

001270

U S PARK SERVICE DUTCH ELM DISEASE STUDY
DATA COLLECTED: SEPTEMBER 1972 TO SEPTEMBER 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, WASHINGTON, D C

ABSTRACT:

MISSION W168, FLT. 1, WAS ACCOMPLISHED WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS AS A CONTINUING EFFORT OF MISSION W166 IN COOPERATION WITH THE DEPT. OF INTERIOR, U. S. PARK SERVICE IN WASHINGTON, D. C. AREA AND A CALIBRATION RUN OVER CALIBRATION TARGETS LOCATED AT WALLOPS STATION, VA. OBJECTIVE - TO USE TWO DISTINCTIVE BLACK AND WHITE FILMS, SPECIAL FILTERS, SPECIAL CHEMICAL FILM PROCESSING TO OBTAIN REMOTE IMAGERY THAT WILL PROVIDE MAXIMUM CONTRAST BETWEEN HEALTHY AND DISEASED DUTCH ELM FOLIATION. FLIGHT IN CLEAR WEATHER, SLIGHT HAZE, VISIBILITY UP TO 8 MILES, AIR TEMP. 24 DEG. C AT 1500 FT., MSL WITH WIND OF 10 KNOTS.
(MISSION NO W168, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
106 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1 STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	4 STATIONS			4 FLIGHT LINES
PHOTOGRAPH	EARTH	BLACK AND WHITE CAMERA FROM AIRCRAFT	PHOTOGRAPHS	106 OBS		1500 FT	6 INCH FOCAL LENGTH

000214

DUTCH ELM DISEASE STUDY

DATA COLLECTED: SEPTEMBER 1973 TO SEPTEMBER 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, WASHINGTON, D C

ABSTRACT:

MISSION W253, FLT. 1, SEPTEMBER 10, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH THE ECOLOGICAL SERVICES LAB. OF NATIONAL CAPITAL PARKS SERVICE. OBJECTIVE - TO OBTAIN SPECTRAL READINGS IN THE RED AND NEAR INFRARED REGIONS OF ELM TREES AFFLICTED WITH THE DUTCH ELM DISEASE IN THE POTOMAC PARK AREA OF WASHINGTON, D.C. IMAGERY WILL BE STUDIED BY SCIENTISTS OF THE ECOLOGICAL SERVICES LAB. OF THE NATIONAL CAPITAL PARK SERVICE FOR DETERMINING SIGNATURES OF DISEASED TREES.
(MISSION NO W253 FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
126 9" X 9" FRAMES

FUNDING:

INVENTORY:

132

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			5
TIME	EARTH	SAMPLING TIME	YMDHML	5	STATIONS			
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	126	OBS		1500 FT	152 MM FOCAL LENGTH

001280

DUTCH ELM DISEASE STUDY

DATA COLLECTED: JULY 1973 TO JULY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, WASHINGTON, D C

ABSTRACT:

MISSION W231, FLT. 1, JULY 12, 1973, WITH WALLOPS STATION C-54 AIRCRAFT WITH TWO T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH ECOLOGICAL SERVICES LAB. OF NATIONAL CAPITAL PARK SERVICE. OBJECTIVE - TO OBTAIN AERIAL IMAGERY IN RED AND INFRARED SPECTRAL WAVE BANDS OF DISEASED AND HEALTHY ELM TREES IN POTOMAC PARK-TIDAL BASIN AREA OF WASHINGTON, D.C. BY USE OF SPECIAL FILTERS AND CONTROLLED FILM PROCESSING, TREES EXHIBITING ONLY SUBTLE SIGNS OF DUTCH ELM DISEASE WILL BE MADE APPARENT ON IMAGERY BY CONTRASTING DENSITIES. FLIGHT MADE IN SCATTERED CLOUDS, VISIBILITY UP TO 10 MILES, AIR TEMP. 17 DEG. C AT 1,500 FT., MSL WITH WIND OF 25 KNOTS FROM 350 DEG.
(MISSION NO W231, FLT 1)

DATA AVAILABILITY:
MISSION NO W231, FLT 1

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
198 9" X 9" FRAMES.

133

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			1 FLIGHT LINE
TIME	EARTH	SAMPLING TIME	YMDHML	6	STATIONS			
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	198	OBS		142 OBS AT 1500 FT, 56 OBS AT 4000 FT	152 MM FOCAL LENGTH

ANNEX III

Part A

Section 2

Maryland - "Shoreline"

001215

GEOLOGICAL INVESTIGATIONS OF MARYLAND'S ATLANTIC OCEAN AND CHESAPEAKE BAY SHORELINES, GEOLOGICAL SURVEY BRANCH OF THE MARYLAND DEPARTMENT OF NATURAL RESOURCES

DATA COLLECTED: MAY 1973 TO MAY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:
LANDSAT

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, POTOMAC RIVER, LITTLE ASSAWOMAN BAY TO CHINCOTEAGUE BAY

ABSTRACT:

MISSION W214, FLT. 1, MAY 17, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH T-11 AERIAL MAPPING CAMERA AND I2S CAMERA SYSTEM IN COOPERATION WITH GEOLOGICAL SURVEY BRANCH OF MD. DEPT. OF NATURAL RESOURCES. OBJECTIVE - TO OBTAIN REMOTE SENSING IMAGERY IN WAVE LENGTH BANDS OF THE MULTI-SPECTRAL SCANNER ABOARD THE ERTS SATELLITE. IMAGERY WILL BE USED AS "GROUND TRUTH" FOR INTERPRETING ERTS IMAGERY WITH RESPECT TO GEOLOGIC AND WATER RESOURCES DATA. WEATHER - CLOUDY WITH VISIBILITY 3-5 MILES, AIR TEMP. 2 DEG. C AT 9500 FT., MSL WITH A WIND OF 17 KNOTS FROM 230 DEG. (MISSION NO W214, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
534 2.7" AND 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730796 730786 730787 730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	11	STATIONS			11 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	534	OBS		9500 FT	100 MM AND 152 MM FOCAL LENGTH

INVESTIGATIONS OF MARYLANDS TIDAL SHORELINES OF THE CHESAPEAKE BAY AND THE ATLANTIC OCEAN

DATA COLLECTED: OCTOBER 1972 TO OCTOBER 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND

ABSTRACT:
MISSION W174, FLIGHT 1, OCTOBER 20, 1972, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH CNE T-11 AERIAL CAMERA AND A I2S FOUR-CHANNEL CAMERA IN COOPERATION WITH MD. GEOLOGICAL SURVEY THROUGHOUT A LARGE PORTION OF CHESAPEAKE BAY, MD. REGION. OBJECTIVE - TO ACQUIRE AIRBORN MULTI-CHANNEL BALCK & WHITE AND FALSE COLOR IMAGERY FOR INVESTIGATION OF MD. TIDAL SHORELINES TO SUPPORT ERTS INVESTIGATIONS. WEATHER - CLEAR, VISIBILITY 10-12 MILES, AIR TEMP. 10 DEG. C AT 10,500 FT., MSL WITH A WIND OF 35 KNOTS FROM 320 DEG.
(MISSION NO W174, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
252 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730796 730786 730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			12 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	12	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	252	OBS		10500 FT	6 INCH FOCAL LENGTH; MULTI-BAND CAMERA 100 MM FOCAL LENGTH

008672

WETLAND MAPPING STUDY-MARYLAND
DATA COLLECTED: JULY 1974 TO JULY 1974

RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND

ABSTRACT:

MISSION W288, FLIGHT 01, WAS ACCOMPLISHED ON JULY 31, 1974, UTILIZING THE WALLOPS STATION UH-1H HELICOPTER EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS AND AN I2S "B" MULTISPECTRAL CAMERA SYSTEM IN COOPERATION WITH THE SMITHSONIAN INSTITUTE. THE OBJECTIVE OF THE FLIGHT WAS TO PROVIDE REMOTE SENSING IMAGERY IN MULTIPLE WAVELENGTH BANDS AT A VARIETY OF SCALES FOR USE IN DETERMINING THE BEST TECHNIQUES IN MAKING DETAILED WETLAND MAPPING STUDIES. (MISSION W288, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
340 70MM PRINTS; 171 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078525 73078640

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	511	OBS			
TIME	EARTH	STATION TIME	YMD	511	OBS	12 FLIGHTS/ LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	340	OBS	12 FLIGHTS/ LINE	250, 450, 500 AND 1500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	171	OBS	12 FLIGHTS/ LINE	250, 450, 500 AND 1500 FEET	100MM FOCAL LENGTH

000158

WETLAND BOUNDARY MAPS
DATA COLLECTED: AUGUST 1971 TO AUGUST 1972

RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND

ABSTRACT:

AERIAL PHOTOGRAPH FILE OF ALL LAND AND WATER INTERFACES IN THE STATE OF MARYLAND. USED TO DELINEATE LANDWARD BOUNDARY OF TIDAL WETLANDS. PHOTOGRAMETRIC STANDARDS MET. COLOR AND IR PHOTOS 1 INCH TO 1000 FT SCALE. BLOWUP PRINTS 1 INCH TO 200 FT SCALE. (PHOTOGRAPHS ARE AVAILABLE FOR EXAMINATION IN DNR OFFICES.)

DATA AVAILABILITY:
PHOTOGRAPHS (SCALE 1" = 1000') PURCHASABLE FROM RAYTHEON AUTOMETRIC OPERATION WAYLAND, MASSACHUSETTS AND PHOTOSCIENCE INC GAITHERSBURG, MARYLAND. PHOTOMAPS AVAILABLE AT DNR (SCALE 1" = 200')

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
1 CUBIC YARD

FUNDING:
STATE OF MARYLAND DNR

INVENTORY:

PUBLICATIONS:

CONTACT:
WILLIAM SIPPLE 301-267-5877
MARYLAND DEPARTMENT OF NATURAL RESOURCES
WATER RESOURCES ADMINISTRATION TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730785 730787 730795 730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2000	STATIONS			
TIME	EARTH	STATION TIME	YMD	2000	STATIONS			
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	SCALE 1 INCH TO 1000 FEET	2000	OBS	ONE TIME		FLIGHTS COVERED ALL LAND AND WATER INTERFACES IN MARYLAND
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	SCALE 1 INCH TO 1000 FEET	2000	OBS	ONE TIME		FLIGHTS COVERED ALL LAND AND WATER INTERFACES IN MARYLAND

001268

UNITED STATES GEOLOGICAL SURVEY STUDY OF FRESHWATER WETLANDS
DATA COLLECTED: SEPTEMBER 1972 TO SEPTEMBER 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, ELKTON WETLANDS, PATUXENT RIVER

ABSTRACT:

MISSION W167, FLT. 1, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS ON SEPT. 8, 1972, IN COOPERATION WITH DEPT. OF INTERIOR, U. S. GEOLOGICAL SURVEY (VIRGINIA CARTER, OFFICE OF REMOTE SENSING) IN ELKTON, MD. REGION. OBJECTIVE - TO ACQUIRE NATURAL AND FALSE-COLOR IMAGERY OF FRESH-WATER WETLANDS IN CONJUNCTION WITH FIELD OBSERVATIONS TO SUPPORT ERTS IMAGERY OF SAME AREA. FLIGHT IN CLEAR WEATHER, VISIBILITY 6-8 MILES, AIR TEMP. 10 DEG. C AT 10,000 FT., MSL WITH WIND OF 12 KNOTS FROM 290 DEG.
(MISSION NO W167, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
36 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI   804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730796 730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
....	....	....	....	....		....	....	....
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	1	STATIONS			1 FLIGHT LINE
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	36	OBS		10000 FT	6 INCH FOCAL LENGTH

001262

MARYLAND DEPARTMENT OF CHESAPEAKE BAY AFFAIRS WETLANDS STUDY
DATA COLLECTED: AUGUST 1972 TO AUGUST 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, ELKTON WETLANDS

ABSTRACT:

MISSION W162, FLT. 1 WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS ON AUG. 25, 1972 IN COOPERATION WITH MD. DEPT. OF CHESAPEAKE BAY AFFAIRS IN ELK RIVER SECTION. OBJECTIVE - TO USE NATURAL AND FALSE-COLOR IMAGERY FOR INVESTIGATION OF MARSHLAND AQUATIC COMMUNITIES FOR IDENTIFICATION AND DISTRIBUTION. FLIGHT IN GOOD WEATHER WITH SOME SCATTERED CLOUDS, EXTREMELY HAZY, AIR TEMP. 10 DEG C AT 9500 FT., MSL WITH WIND OF 10 KNOTS FROM 205 DEG. (MISSION NO W162, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
44 9" X 9" FRAMES.

FUNDING:

INVENTORY:

149

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1 STATIONS			2 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	2 STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	44 OBS		9500 FT	6 INCH FOCAL LENGTH

000034

MARYLAND DEPARTMENT OF CHESAPEAKE BAY AFFAIRS WETLANDS STUDIES
DATA COLLECTED: JUNE 1972 TO JUNE 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, ELKTON

ABSTRACT:

MISSION W131, FLT. 2 WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS ON JUNE 3, 1972, IN COOPERATION WITH THE MD. DEPT OF CHESAPEAKE BAY AFFAIRS IN ELKTON, MD. REGION. OBJECTIVE - TO ACQUIRE NATURAL AND FALSE-COLOR REMOTELY SENSED IMAGERY OF WETLAND VEGETATION SPECIES AND MARSHES TO ESTABLISH BASELINE DATA FOR FUTURE EARTH RESOURCES TECHNICAL SATELLITE EXPERIMENTS. FLIGHT IN CLEAR WEATHER, MODERATE HAZE, AIR TEMP. 2 DEG. C AT 10,000 FT. 16 DEG. C AT 2500 FT., MSL WITH WIND OF 15 KNOTS FROM 260 DEG.
(MISSION W131, FLT 2)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
214 9" X 9" FRAMES.

FUNDING:

INVENTORY:

146

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730796 730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			9 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	9	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	214	OBS		112 OBS AT 10000 FT, 102 OBS AT 2500 FT	6 INCH FOCAL LENGTH

006646

CECIL COUNTY WETLAND STUDIES-MARYLAND

DATA COLLECTED: OCTOBER 1971 TO OCTOBER 1971

RECEIVED: AUGUST 30, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, CECIL COUNTY

ABSTRACT:

MISSION W090, FLIGHT01, WAS ACCOMPLISHED ON OCTOBER 15, 1971, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY AND THE MARYLAND DEPARTMENT OF CHESAPEAKE BAY AFFAIRS. THE OBJECTIVE OF THE FLIGHT WAS TO STUDY THE SEASONAL CHANGES OF FRESHWATER AND ESTUARINE MARSHES USING COLOR AND FALSE COLOR INFRARED AERIAL PHOTOGRAPHY.
(MISSION W090, FLIGHT01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
246 9" X 9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73079555

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	246	OBS			
TIME	EARTH	STATION TIME	YMD	246	OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	246	OBS	1 FLIGHT PER LINE	10000 AND 2000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	246	OBS	1 FLIGHT PER LINE	10000 AND 2000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

000206

BLACKWATER NATIONAL WILDLIFE REFUGE WETLANDS MAPPING STUDY
DATA COLLECTED: SEPTEMBER 1973 TO SEPTEMBER 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, BLACKWATER WILDLIFE REFUGE

ABSTRACT:
MISSION W238, FLT. 1, ACCOMPLISHED ON SEPT. 24, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES OF SMITHSONIAN INSTITUTE. OBJECTIVE - TO OBTAIN COLOR AND COLOR INFRARED IMAGERY OF BLACKWATER NATIONAL WILDLIFE REFUGE WETLANDS FOR USE IN MAPPING THE WETLAND VEGETATION. (MISSION NO W238, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
160 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			12 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	12	STATIONS			
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	160	OBS		6000 FT	152 MM FOCAL LENGTH

000183

BLACKWATER WILDLIFE REFUGE BASE LINE STUDY
DATA COLLECTED: OCTOBER 1970 TO OCTOBER 1970

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND, BLACKWATER WILDLIFE REFUGE

ABSTRACT:
MISSION W029, FLT. 2, OCTOBER 19, 1970, WITH WALLOPS STATION CHARTERED BELL 205 HELICOPTER EQUIPPED WITH A POD OF 4 T-11 AERIAL MAPPING CAMERAS. OBJECTIVE - TO OBTAIN BASE LINE REMOTE SENSOR DATA FOR CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE OVER THE BLACKWATER WILDLIFE REFUGE LOCATED IN THE CHESAPEAKE BAY WETLANDS AREA SOUTH OF CAMBRIDGE, MD. FLIGHT IN CLEAR WEATHER, SLIGHTLY HAZY, AIR TEMP. 10 DEG. C AT 1000 FT. AND 8 DEG. C FROM 10,000 FT., MSL WITH WIND OF 20 KNOTS FROM 280 DEG. (MISSION NO W029, FLT 2)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
132 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

144

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			4 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	4	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	132	OBS		48 OBS AT 1000 FT, 44 OBS AT 5000 FT, 40 OBS AT 10000 FT	6 INCH FOCAL LENGTH

ANNEX III

Part A

Section 2

Maryland - "Rivers"

000073

DYNAMIC RIVER BASIN CHARACTERISTICS STUDY-SOWBRIDGE RIVER, DELAWARE AND BEAVER DAM RIVER, MARYLAND

DATA COLLECTED: JULY 1973 TO JULY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:
LANDSAT

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, BEAVER DAM RIVER; DELAWARE BAY, DELAWARE, SOWBRIDGE RIVER

ABSTRACT:

MISSION W237, FLT. 1, JULY 25, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH T-11 AERIAL MAPPING CAMERA AND I2S MULTISPECTRAL CAMERA SYSTEM IN COOPERATION WITH WATER RESOURCES DIV. OF U. S. GEOLOGICAL SURVEY. OBJECTIVE - TO OBTAIN MULTISPECTRAL IMAGERY OF SOWBRIDGE AND BEAVER DAM RIVERS PERIODICALLY FOR USE IN COMPILING A HISTORY OF DRAINAGE BASIN DYNAMICS OF EACH OF THE RIVERS. FLIGHT MADE IN HAZE WEATHER WITH SOME SCATTERED AND BROKEN CLOUDS, AIR TEMP. 14 DEG. C AT 5500 FT., 8 DEG. C AT 9500 FT., MSL WITH WIND OF 10-15 KNOTS FROM 225 DEG.
(MISSION NO W237, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
75 9" X 9" AND 2.7" X 2.7" FRAMES.

FUNDING:

146

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI   804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786 730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			6 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	6	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	75	OBS		55 OBS AT 5500 FT, 20 OBS AT 9500 FT	152 MM AND 100 MM FOCAL LENGTH, I2-S MULTISPECTRAL

DYNAMIC RIVER BASIN CHARACTERISTICS STUDY-SOWBRIDGE RIVERS, DELAWARE AND BEAVER DAM RIVER, MARYLAND

DATA COLLECTED: MAY 1973 TO MAY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:
LANDSAT

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, MARYLAND, EASTON, DELAWARE ELLENDALE

ABSTRACT:

MISSION W208, FLI. 1, MAY 7, 1973, WITH WALLOPS STATION HELICOPTER EQUIPPED WITH T-11 AERIAL MAPPING CAMERA AND I2S CAMERA SYSTEM IN COOPERATION WITH WATER RES. DIV. OF U. S. GEOLOGICAL SURVEY. OBJECTIVE - TO OBTAIN IMAGERY OF EMERGENT LEAF AND PLANT ACTIVITY IN SOWBRIDGE AND BEAVER DAM RIVER BASINS. WEATHER - CLEAR, WITH MOD. HAZE, AIR TEMP. -3 DEG. AT 5500 FT., MSL WITH WIND AT 15 KNOTS FROM 33 DEG.
(MISSION NO W208, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
66 2.7" X 2.7" AND 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI   804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730785 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS			6 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	6	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	66	OBS		50 OBS AT 5500 FT, 16 OBS AT 9500 FT	100 MM AND 152 MM FOCAL LENGTH

001197

DYNAMIC RIVER BASIN CHARACTERISTICS STUDY-SOWBRIDGE RIVER, DELAWARE AND BEAVER DAM RIVER, MARYLAND

DATA COLLECTED: APRIL 1973 TO APRIL 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:
LANDSAT

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, MARYLAND, EASTON, DELAWARE, ELLENDALE

ABSTRACT:

MISSION W192, FLIGHT 1, APRIL 9, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH T-11 AERIAL MAPPING CAMERA AND I2S CAMERA SYSTEM IN COOPERATION WITH WATER RESOURCES DIV. OF U. S. GEOLOGICAL SURVEY. OBJECTIAL SCANNER WAVE-LENGTH BANDS OF VEGETATION AND DRAINAGE CHARACTERISTICS OF SOWBRIDGE AND BEAVERDAM RIVER BASINS DURING EARLY SPRING. WEATHER - HAZY WITH LOW AND HIGH SCATTERED CLOUDS, AIR TEMP. 2 DEG. C AT 9500 FT., MSL WITH WIND OF 12 KNOTS FROM 090 DEG. (MISSION NO W192, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
130 2.7" X 2.7" AND 9" X 9" FRAMES

FUNDING:

148

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730785 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
....	....	....	....	....		....	....	....
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS			7 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	7	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	130	OBS		40 OBS AT 9500 FT, 90 OBS AT 5500 FT	100 MM AND 152 MM FOCAL LENGTH

DYNAMIC BASIN CHARACTERISTICS STUDY-SOWBRIDGE RIVER, DELAWARE AND BEAVER DAM RIVER, MARYLAND

DATA COLLECTED: NOVEMBER 1972 TO NOVEMBER 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:
LANDSAT

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, BEAVER DAM BRANCH, DELAWARE, SOWBRIDGE BRANCH

ABSTRACT:

MISSION W180, FLT. 1, WITH WALLOPS STA. C-54 AIRCRAFT EQUIPPED WITH T-11 AND AN I26 CAMERA SYSTEM ON NOV 16, 1972, IN COOPERATION WITH THE GEOLOGICAL SURVEY OF THE DEPT OF INTERIOR. THE FLIGHT MADE OVER SOWBRIDGE AND BEVER DAM RIVERS IN DEL. AND MD. OBJECTIVE - TO EXPOSE ANY DYNAMIC BASIN CHARACTERISTIC CHANGES THAT HAVE TAKEN PLACE SINCE THE LAST PHOTO MISSION OF OCT. 25, 1972. GOOD WEATHER WITH THIN OVERCAST, VISIBILITY 5-6 MILES, AIR TEMP. 8 DEG C AT 5000 FT. AND 2 DEG C AT 10,000 FT.. MSL WIND OF 20 KNOTS FROM 138 DEG.
(MISSION NO W180, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
ORIGINAL FILM
204 9 X 9 FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	6	STATIONS			6 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	204	OBS		164 AT 5000 FT, 40 AT 10000 FT	6 INCH FOCAL LENGTH

001265

DYNAMIC BASIN CHARACTERISTICS STUDY-SOW BRIDGE RIVER, DELAWARE AND BEAVER DAM RIVER, MARYLAND

DATA COLLECTED: OCTOBER 1972 TO OCTOBER 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, DELAWARE BAY, DELAWARE, SOWBRIDGE RIVER, CHESAPEAKE BAY, MARYLAND, BEAVER DAM RIVER

ABSTRACT:

MISSION W164, FLT. 1 WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH T-11 AND I2S CAMERA SYSTEMS ON OCTOBER 26, 1972, IN COOPERATION WITH U. S. GEOLOGICAL SURVEY OF DEPT. OF INTERIOR. FLIGHT MADE OVER SOWBRIDGE AND BEAVER DAM RIVERS IN DEL. AND MD. OBJECTIVE - TO COMPILE A BASE LINE STUDY OF EACH RIVER BASINS FOR USE IN OBSERVING DYNAMIC BASIN CHARACTERISTICS FROM ERTS IMAGERY. FLIGHT IN CLEAR WEATHER, VISIBILITY 7-10 MILES, AIR TEMP. 10 DEG. C AT 5000 FT., MSL WITH WIND OF 5 KNOTS FROM 210 DEG.
(MISSION NO W164, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
230 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS			6 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	6	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	230	OBS		180 OBS AT 5000 FT, 50 OBS AT 10000 FT	6 INCH FOCAL LENGTH

```
001288                              SHORELINE EROSION OF CHESTER RIVER AREA                                       PAGE 01
                                DATA COLLECTED: NOVEMBER 1971 TO OCTOBER 1972                    RECEIVED: SEPTEMBER 17, 1973

PROJECTS:
     CHESTER RIVER STUDY

GENERAL GEOGRAPHIC AREA:
     U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, CHESTER RIVER

ABSTRACT:
     PHOTOGRAPHIC AND VISUAL SURVEY OF SHORELINE EROSION, SHORELINE STRUCTURES AND SHORELINE TYPE ON THE CHESTER RIVER, MARYLAND.

DATA AVAILABILITY:

PLATFORM TYPES:
     SHIP

ARCHIVE MEDIA:
     PHOTOPRINTS
     98 MILES OF SHORELINE CLASSIFIED: APPROX 200 PHOTOGRAPHS

FUNDING:
     WESTINGHOUSE, MARYLAND DEPT OF NATURAL RESOURCES

INVENTORY:

PUBLICATIONS:
     CHESTER RIVER STUDY, WESTINGHOUSE, VOL 1, 2, 3

CONTACT:
     HAROLD PALMER    301-765-1000
     WESTINGHOUSE ELECTRIC CORPORATION
     OCEAN RESEARCH LABORATORY, BOX 1771
     ANNAPOLIS   MARYLAND USA  21404

GRID LOCATOR (LAT):
     730796

        PARAMETER IDENTIFICATION SECTION:

NAME             SPHERE         METHOD            UNITS             DATA AMOUNT        FREQUENCY      HEIGHT/DEPTH   REMARKS
................ .............. ................. ................. .................. .............. .............. ...............
POSITION         EARTH          FIXED POINT       MAP LOCATION      1        STATIONS                                CHESTER RIVER
                                                                                                                      COMPLEX
                                                                                                                      CONSIDERED AS
                                                                                                                      ONE STATION
TIME             EARTH          STATION TIME      YMDL              1        STATIONS
PHOTOGRAPH       EARTH          COLOR CAMERA      PHOTOGRAPHS, 35   98       MILES                                   200 PHOTOGRAPHS,
                                 FROM GROUND       MM COLOR                                                            SHORELINE
                                                   SLIDES                                                              CONDITIONS
                                                                                                                      CLASSIFIED AS
                                                                                                                      SEVERE
                                                                                                                      EROSION,
                                                                                                                      MODERATE
                                                                                                                      EROSION;
```

SHORELINE EROSION OF CHESTER RIVER AREA (CONT.)

```
     PARAMETER IDENTIFICATION SECTION:
NAME             SPHERE         METHOD            UNITS            DATA AMOUNT          FREQUENCY       HEIGHT/DEPTH   REMARKS
................ .............. ................. ................ .................... ............... ............. ................
                                                                                                                      BEACH, NATURAL
                                                                                                                      PROTECTION;
                                                                                                                      MAN-MADE
                                                                                                                      PROTECTIVE
                                                                                                                      DEVICES
                                                                                                                     200 PHOTOGRAPHS,
DEPOSITION       SEDIMENT       VISUAL            PERCENT          98       MILES                                      SHORELINE
                                                                                                                      CONDITIONS
                                                                                                                      CLASSIFIED AS
                                                                                                                      SEVERE
                                                                                                                      EROSION,
                                                                                                                      MODERATE
                                                                                                                      EROSION;
                                                                                                                      BEACH, NATURAL
                                                                                                                      PROTECTION;
                                                                                                                      MAN-MADE
                                                                                                                      PROTECTIVE
                                                                                                                      DEVICES
```

000069

MARYLAND DEPARTMENT OF CHESAPEAKE BAY AFFAIRS WETLANDS STUDIES

DATA COLLECTED: APRIL 1972 TO APRIL 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, ELK RIVER

ABSTRACT:
MISSION W125, FLT. 1, APRIL 28, 1972, WITH WALLOPS STATION C-54 AIRCRAFT WITH TWO T-11 AERIAL CAMERAS IN COOPERATION WITH MD. DEPT. OF CHESAPEAKE BAY AFFAIRS IN ELK RIVER, MD. AREA. OBJECTIVE - TO UTILIZE AIRBORN NATURAL AND FALSE-COLOR IMAGERY FOR IDENTIFICATION AND DISTRIBUTION OF MARSHLAND AQUATIC COMMUNITIES IN PREPARATION FOR ERTS OVERPASSES. FLIGHT IN GOOD WEATHER WITH MODERATE HAZE, AIR TEMP. 6 DEG. C AT 2,500 FT., MSL WITH WIND OF 15 KNOTS FROM 320 DEG.
(MISSION NO W125, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
155 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730796 730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1 STATIONS			9 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	11 STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	228 OBS		136 OBS AT 10000 FT, 92 OBS AT 2500 FT	6 INCH FOCAL LENGTH

000190

NASA/LANGLEY PLANKTON DETECTION STUDIES
DATA COLLECTED: OCTOBER 1972 TO OCTOBER 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:

MISSION W175, FLT. 1, OCT. 17, 1972, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH A T-11 AND AN I2S CAMERA SYSTEM IN COOPERATION WITH NASA'S LANGLEY RES. CTR. AND ENVIRONMENTAL PROTECTION AGENCY. OBJECTIVE - TO IDENTIFY ACCUMULATIONS OF PHYTOPLANKTON AT SALT WEDGE OF POTOMAC RIVER USING AERIAL CAMERAS WITH PRE-DETERMINED FILM/FILTER COMBINATIONS. MISSION A FOLLOW ON OF MISSION W141. FLIGHT IN CLEAR WEATHER, SOME HAZE, AIR TEMP. 10 DEG.C AT 6500 FT., MSL WITH WIND OF 40 KNOTS FROM 275 DEG.
(MISSION NO W175, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
189 9" X 9" AND 70-MM FRAMES

FUNDING:

INVENTORY:

154

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1 STATIONS			3 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	3 STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	189 OBS		110 OBS AT 4400 FT, 79 OBS AT 6500 FT	6 INCH FOCAL LENGTH

000191

NASA/LANGLEY PLANKTON DETECTION STUDIES

DATA COLLECTED: OCTOBER 1972 TO OCTOBER 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:

MISSION W175, FLT. 2, OCT. 17, 1972, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH A T-11, AND I2S CAMERA SYSTEM IN COOPERATION WITH NASA'S LANGLEY RES. CTR. AND ENVIRONMENTAL PROTECTION AGENCY. OBJECTIVE - TO IDENTIFY ACCUMULATIONS OF PHYTOPLANKTON AT SALT WEDGE OF POTOMAC RIVER USING AERIAL CAMERAS WITH PRE-DETERMINED FILM/FILTER COMBINATIONS. MISSION A FOLLOW UP OF MISSION W141. FLIGHT IN CLEAR WEATHER, SOME HAZE, AIR TEMP. 11 DEG. C AT 6500 FT., MSL WITH WIND OF 40 KNOTS FROM 275 DEG.
(MISSION NO W175, FLT 2)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
197 9" X 9" AND 70-MM FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI   804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078G

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			2 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	2	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	197	OBS		103 OBS AT 4400 FT, 91 OBS AT 6500 FT	6 INCH FOCAL LENGTH

001269 MARYLAND DEPARTMENT OF CHESAPEAKE BAY AFFAIRS WETLANDS STUDY

DATA COLLECTED: SEPTEMBER 1972 TO SEPTEMBER 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:

MISSION W167, FLT. 2. WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWC T-11 AERIAL CAMERAS ON SEPT. 8, 1972, IN COOPERATION WITH THE MD. DEPT. OF CHESAPEAKE BAY AFFAIRS IN ELKTON, MD. AREA. OBJECTIVE - TO OBTAIN NATURAL AND FALSE-COLOR IMAGERY TO INVESTIGATE MARSHLAND ECOLOGY IN ELK RIVER AREA. FLIGHT IN CLEAR WEATHER, VISIBILITY 6-8 MILES, AIR TEMP. 10 DEG. C AT 10,000 FT., MSL WITH WIND OF 12 KNOTS FROM 290 DEG.
(MISSION NO W167, FLT 2)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
202 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			9 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	9	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	202	OBS		106 OBS AT 10000 FT, 96 OBS AT 2500 FT	6 INCH FOCAL LENGTH

001263

USGS FRESHWATER WETLANDS STUDY
DATA COLLECTED: AUGUST 1972 TO AUGUST 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:

MISSION W162, FLT. 2 WITH WALLOPS STATION C-54 AIRCRAFT WITH TWO T-11 AERIAL CAMERAS ON AUG. 25, 1972, IN COOPERATION WITH DEPT. OF INTERIOR, U. S. GEOLOGICAL SURVEY (VIRGINIA CARTER, OFFICE OF REMOTE SENSING) IN PATUXENT RIVER, MD. AREA. OBJECTIVE - TO USE AIRBORNE NATURAL AND FALSE-COLOR IMAGERY TO IDENTIFY AND STUDY DISTRIBUTION OF FRESHWATER WETLAND AQUATIC PLANT CANOPIES IN PATUXENT RIVER AREA IN PREPARATION FOR FUTURE ERTS OVERPASSES. FLIGHT IN GOOD WEATHER, NO OVERCAST, VERY HAZY, AIR TEMP. 7 DEG. C AT 9500 FT., MSL WITH WIND OF 10 KNOTS FROM 170 DEG. (MISSION NO W162, FLT 2)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
40 9" X 9" FRAMES.

FUNDING:

INVENTORY:

157

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	1	STATIONS			1 FLIGHT LINE
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	40	OBS		9500 FT	6 INCH FOCAL LENGTH

000050

USGS FRESHWATER WETLANDS STUDY
DATA COLLECTED: JULY 1972 TO JULY 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:

MISSION W147, FLT. 2 WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS ON JULY 10, 1972, IN COOPERATION WITH DEPT. OF INTERIOR, U. S. GEOLOGICAL SURVEY (VA. CARTER OFFICE OF REMOTE SENSING) IN PATUXENT RIVER, MD. REGION. OBJECTIVE - TO ACQUIRE BOTH NATURAL AND FALSE-COLOR AIRBORN IMAGERY FOR INVESTIGATION OF SPECIES TYPE AND DELINATION OF FRESHWATER AQUATIC COMMUNITIES. FLIGHT IN GOOD WEATHER, AIR TEMP. 5 DEG. C AT 10,000 FT. MSL WITH WIND OF 15-20 KNOTS FROM 240 DEG. (MISSION W147, FLT 2)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
39 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 604-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	1	STATIONS			1 FLIGHT LINE
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	39	OBS		10000 FT	6 INCH FOCAL LENGTH

000033

USGS FRESHWATER WETLANDS STUDIES
DATA COLLECTED: JUNE 1972 TO JUNE 1972

PAGE 01
RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:

MISSION W131, FLT. 1, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS ON JUNE 3, 1972, IN COOPERATION WITH DEPT. OF INTERIOR, U. S. GEOLOGICAL SURVEY IN THE PATUXENT RIVER, MD. REGION. OBJECTIVE - TO ACQUIRE NATURAL AND FALSE-COLOR IMAGERY TO INVESTIGATE FRESHWATER WETLAND PLANT CANOPIES IN PREPARATION FOR ERTS INVESTIGATIONS. FLIGHT IN CLEAR WEATHER, MODERATE HAZE, AIR TEMP. 2 DEG. C AT 10,000 FT., 16 DEG. C AT 2500 FT., MSL WITH WIND OF 15 KNOTS FROM 260 DEG. (MISSION W131, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
33 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			1 FLIGHT LINE
TIME	EARTH	SAMPLING TIME	YMDHML	1	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	38	OBS		10000 FT	6 INCH FOCAL LENGTH

001702

PATUXENT RIVER MARYLAND WETLAND PHOTOGRAPHY

DATA COLLECTED: SEPTEMBER 1970 TO SEPTEMBER 1970

RECEIVED: MARCH 28, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:

AN EXPERIMENTAL REMOTE SENSING PROGRAM CONDUCTED FOR THE STATE OF MARYLAND IN SEPTEMBER 1970 RESULTED IN A FILE OF COLOR AND COLOR IR 9X9 PHOTOGRAPHY AT SCALES OF 1 TO 3000, 1 TO 6000, 1 TO 9000 AND 1 TO 12000 OF A 3X10 MILE STRIP OF WETLANDS ON THE PATUXENT RIVER.

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
ONE FOLDER OF 9X9 PHOTOGRAPHS

FUNDING:
STATE OF MARYLAND

INVENTORY:

PUBLICATIONS:

CONTACT:
W.C. COULBOURN, APPLIED TECHNOLOGY 516 575 0574
GRUMMAN ECOSYSTEMS CORPORATION
1111 STEWART AVENUE
BETHPAGE NEW YORK USA 11714

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	STATION TIME	YMD	1	STATIONS			A 3 BY 10 MILE TEST STRIP OF WETLANDS ON THE PATUXENT RIVER
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	9X9 PHOTOGRAPH	1	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	9X9 PHOTOGRAPH	1	STATIONS			

001206

POCOMOKE RIVER WETLANDS VEGETATION STUDY, THE UNITED STATES GEOLOGICAL SURVEY
DATA COLLECTED: MAY 1973 TO MAY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, POCOMOKE RIVER

ABSTRACT:

MISSION W208, FLT. 2, MAY 16, 1973, WITH WALLOPS STATION HELICOPTER EQUIPPED WITH T-11 AERIAL MAPPING CAMERA AND I2S CAMERA SYSTEM IN COOPERATION WITH U. S. GEOLOGICAL SURVEY. OBJECTIVE - TO OBTAIN REMOTE SENSING IMAGERY OF POCOMOKE RIVER AND ADJACENT LOWLAND FOR IDENTIFICATION OF WETLAND VEGETATION ALONG RIVER. (MISSION NO W208, FLT 2)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
202 2.7" X 2.7" AND 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730775 730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	2	STATIONS			2 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	202	OBS		56 OBS AT 9500 FT, 146 OBS AT 6500 FT	100 MM AND 152 MM FOCAL LENGTH, REMOTE SENSING

POCOMOKE RIVER BASIN STUDY

DATA COLLECTED: APRIL 1973 TO APRIL 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, POCOMOKE SOUND AND RIVER

ABSTRACT:

MISSION W192, FLIGHT 2, APRIL 9, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH T-11 AERIAL MAPPING CAMERA AND AN I2S CAMERA SYSTEM IN COOPERATION WITH MD. DEPT OF CHESAPEAKE BAY AFFAIRS. OBJECTIVE - TO OBTAIN MULTI-BAND IMAGERY OF POCOMOKE RIVER WETLANDS FOR USE IN ANALYZING WETLAND VEGETATION. WEATHER - HAZY WITH LOW AND HIGH BROKEN CLOUDS, AIR TEMP. 2 DEG. C AT 9500 FT., MSL WITH WIND OF 12 KNOTS FROM 090 DEG.
(MISSION NO W192, FLT 2)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
128 2.7" X 2.7" AND 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI   804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730775 730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			2 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	2	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	128	OBS		92 OBS AT 9500 FT, 36 OBS AT 5500 FT	100 MM AND 152 MM FOCAL LENGTH, MULTI-BAND IMAGERY

001275

RHODE RIVER VEGETATIVE AND DRAINAGE STUDIES
DATA COLLECTED: OCTOBER 1972 TO OCTOBER 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, RHODE RIVER WATERSHED

ABSTRACT:
MISSION W170, FLI. 1, ACCOMPLISHED WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO AERIAL CAMERAS, T-11 AND I2S, ON OCTOBER 11, 1972, IN COOPERATION WITH SMITHSONIAN INSTITUTE. MISSION OVER WETLANDS AREAS OF RHODE RIVER AND TRIBUTARIES. ONE OF A SERIES TAKEN OVER RHODE RIVER FOR PURPOSE OF DEFINING WETLAND VEGETATION SIGNATURES THROUGHOUT YEARLY GROWTH CYCLE. FLIGHT IN CLEAR WEATHER WITH VISIBILITY 10-12 MILES, AIR TEMP. +5 DEG. AT 2500 FT., MSL WITH WIND OF 8 KNOTS FROM 360 DEG. (MISSION NO W170, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
696 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	13	STATIONS			13 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	645	OBS		420 OBS AT 2500 FT, 120 OBS AT 1200 FT, 51 OBS AT 1000 FT, 105 OBS AT 500 FT	6 INCH FOCAL LENGTH

001266

RHODE RIVER VEGETATIVE AND DRAINAGE STUDIES

DATA COLLECTED: AUGUST 1972 TO AUGUST 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, RHODE RIVER

ABSTRACT:

MISSION W165, FLT. 1 WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS ON AUG. 30, 1972, IN COOPERATION WITH CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES (SMITHSONIAN INSTITUTE) IN RHODE RIVER, MD. REGION. OBJECTIVE - TO ACQUIRE AIRBORN NATURAL AND FALSE-COLOR IMAGERY FOR INVESTIGATION OF VEGETATION GROWTH AND DRAINAGE PATTERNS WITHIN THE RHODE RIVER WATERSHED. FLIGHT IN GOOD WEATHER, NO OVERCAST, SLIGHT HAZE, AIR TEMP. 23 DEG. C AT 2500 FT., MSL WITH WIND OF 15 KNOTS FROM 285 DEG.
(MISSION NO W165, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
260 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-624-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	9	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	260	OBS		162 OBS AT 2500 FT, 52 OBS AT 1200 FT, 46 OBS AT 500 FT	9 FLIGHT LINES 6 INCH FOCAL LENGTH

RHODE RIVER VEGETATIVE AND DRAINAGE STUDIES
DATA COLLECTED: AUGUST 1972 TO AUGUST 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, RHODE RIVER WATERSHED

ABSTRACT:

MISSION W149, FLI., 1 WITH WALLOPS STATION C-54 AIRCRAFT WITH ONE T-11 AERIAL CAMERA AND H.R.B. SINGER AAD-2 THERMAL SCANNER ON AUG. 10, 1972, IN COOPERATION WITH CHESAPEAKE BAY CTR. FOR ENVIRONMENTAL STUDIES. OBJECTIVE - TO USE FALSE COLOR NEAR INFRARED PHOTOGRAPHY AND PASSIVE INFRARED TO STUDY VEGETATION AND DRAINAGE PATTERNS WITH RHODE RIVER WATERSHED. FLIGHT IN CLEAR WEATHER WITH SLIGHT HAZE, AIR TEMP. 15 DEG. C AT 2500 FT., MSL WITH WIND 45 KNOTS FROM 250 DEG. (MISSION NO W149, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
178 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	11	STATIONS			11 FLIGHT LINES
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	168	OBS		14 OBS AT 12000 FT, 17 OBS AT 3000 FT, 147 OBS AT 2500 FT	6 INCH FOCAL LENGTH FALSE COLOR NEAR INFRARED AND PASSIVE INFRARED

C00047

RHODE RIVER VEGETATIVE AND DRAINAGE STUDIES
DATA COLLECTED: JUNE 1972 TO JUNE 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, RHODE RIVER

ABSTRACT:

MISSION W146, FLT. 1, JUNE 26, 1972, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS, IN COOPERATION WITH CHESAPEAKE BAY CTR. FOR ENVIRONMENTAL STUDIES. OBJECTIVE-TO CORRELATE GROUND TRUTH INFORMATION WITH REMOTE SENSED IMAGERY FOR VEGETATIVE GROWTH CHARACTERISTICS, SOIL CONDITIONS, SURFACE WATER LOCATIONS, AND DRAINAGE PATTERNS. LIGHT OVERCAST AND SLIGHT HAZE, AIR TEMP. 20 DEG. C AT 1500 FT., MSL WITH WIND OF 8 KNOTS FROM 300 DEG. (MISSION W146, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
268 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	9	STATIONS			9 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	268	OBS		1500 FT	152 MM FOCAL LENGTH

000070

RHODE RIVER VEGETATION AND DRAINAGE STUDY
DATA COLLECTED: MAY 1972 TO MAY 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, RHODE RIVER

ABSTRACT:

MISSION W126, FLT. 1, MAY 5, 1972, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS, IN COOPERATION WITH THE CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES OF SMITHSONIAN INSTITUTE. OBJECTIVE - TO OBTAIN SPRING IMAGERY OF MARSH AND BASIN VEGETATION FOR USE IN MAKING SPECTRAL COMPARISONS OF SAME PLANTS THROUGHOUT GROWING SEASON. FLIGHT MADE WITH GOOD VISIBILITY, SCATTERED CLOUD COVERAGE, AIR TEMP. 16 DEG. C AT 2500 FT., 12 DEG. C AT 10,000 FT., MSL WITH WIND OF 15 KNOTS FROM 290 DEG.
(MISSION NO W126, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
229 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	12	STATIONS			9 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	229	OBS		208 OBS AT 2500 FT, 21 OBS AT 10000 FT	152 MM FOCAL LENGTH

000064

SHORELINE STUDY, SMITHSONIAN INSTITUTION
DATA COLLECTED: APRIL 1972 TO APRIL 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, RHODE RIVER

ABSTRACT:

MISSION W122, FLT. 1, APRIL 21, 1972, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH ATT-11 AERIAL CAMERA IN COOPERATION WITH CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES OF THE SMITHSONIAN INSTITUTE. OBJECTIVE - TO RECORD VARIATIONS IN LOCATION OF SHORE-LINE OF RHODE RIVER ESTUARY BY USE OF AERIAL PHOTOGRAPHY IN CONJUNCTION WITH GROUND MEASUREMENTS. FLIGHT MADE IN CLOUD-FREE WEATHER WITH MODERATE HAZE, VISIBILITY 5-7 MILES, AIR TEMP. 0 DEG. C AT 5000 FT., MSL WITH WIND OF 10 KNOTS FROM SWE.
(MISSION NO W122, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
42 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			3
TIME	EARTH	SAMPLING TIME	YMDHML	6	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	42	OBS		5000 FT	6 INCH FOCAL LENGTH

000060

CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES VEGETATION IDENTIFICATION

DATA COLLECTED: APRIL 1972 TO APRIL 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, RHODE RIVER

ABSTRACT:

MISSION W119, FLT. 1, APRIL 18, 1972, WITH WALLOPS STATION C-54 AIRCRAFT WITH TWO T-11 AERIAL CAMERAS, IN COOPERATION WITH THE CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES (CBCES) TO USE VISIBLE AND NEAR INFRARED IMAGERY TO IDENTIFY VEGETATION IN RHODE RIVER WATERSHED. FLIGHT MADE IN CLEAR WEATHER, AIR TEMP. 2 DEG. C AT 12,500 FT., AND 8 DEG. C AT 2500 FT., MSL WITH WIND OF 30 KNOTS FROM 290 DEG.
(MISSION NO W119, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
269 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1 STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	14 STATIONS			11 FLIGHT LINES
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	269 OBS		24 OBS AT 12500 FT, 245 OBS AT 2500 FT	6 INCH FOCAL LENGTH

007222

RHODE RIVER VEGETATIVE AND DRAINAGE STUDIES-MARYLAND
DATA COLLECTED: MARCH 1972 TO MARCH 1972

RECEIVED: SEPTEMBER 16, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, RHODE RIVER

ABSTRACT:

MISSION W116, FLIGHT 02, WAS ACCOMPLISHED ON MARCH 28, 1972, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH ONE T-11 AERIAL CAMERA AND ONE AAC-2 THERMAL IR SCANNER IN COOPERATION WITH THE CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES OF THE SMITHSONIAN INSTITUTE. THE OBJECTIVE OF THE FLIGHT WAS TO PROVIDE COMPARATIVE COLOR AND INFRARED IMAGERY OF THE RHODE RIVER WATERSHED.
(MISSION W116, FLIGHT 02)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
140 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078655

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	36 OBS			
TIME	EARTH	STATION TIME	YMD	36 OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	36 OBS	1 FLIGHT PER LINE	2500 & 10,000 FEET	152 AND FOUR-TENTHS MM AND 20 AND ONE-TENTH MM FOCAL LENGTHS
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	36 OBS	1 FLIGHT PER LINE	2500 & 10,000 FEET	152 AND FOUR-TENTHS MM AND

```
      PARAMETER IDENTIFICATION SECTION:

NAME             SPHERE         METHOD            UNITS             DATA AMOUNT        FREQUENCY      HEIGHT/DEPTH   REMARKS
................ .............. ................. ................. .................. .............. .............. ...............
                                                                                                                      20 AND ONE-
                                                                                                                      TENTH MM FOCAL
                                                                                                                      LENGTHS
```

RHODE RIVER WATERSHED DRAINAGE STUDY
DATA COLLECTED: JANUARY 1972 TO JANUARY 1972

RECEIVED: SEPTEMBER 16, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, RHODE RIVER WATERSHED

ABSTRACT:

MISSION W105, FLIGHT 01, WAS ACCOMPLISHED ON JANUARY 21, 1972 UTILIZING A WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH THE CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES OF THE SMITHSONIAN INSTITUTE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN WINTER IMAGERY OF THE RHODE RIVER WATERSHED TO BE USED IN STUDING EROSIONAL PROCESSES AT WORK WITHIN THE AREA WITHOUT THE INTERFERENCE OF LEAF COVERAGE IN WOODED AREAS. A RUN WAS MADE OVER POPLAR AND COACHES ISLANDS FOR OBTAINING DATA OF EROSIONAL PROCESSES AT WORK ON THE BAYSIDE OF THE ISLANDS. (MISSION, W105, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
184 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

172

INVENTORY:

PUBLICATIONS:

CONTACT:

MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078655

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	184	OBS			
TIME	EARTH	SAMPLING TIME	YMDHM	184	OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	184	OBS	1 FLIGHT PER LINE	2500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

006644

RHODE RIVER WATERSHED VEGETATIVE AND DRAINAGE STUDY
DATA COLLECTED: OCTOBER 1971 TO OCTOBER 1971

RECEIVED: AUGUST 30, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, RHODE RIVER

ABSTRACT:

MISSION W039, FLIGHT01, WAS ACCOMPLISHED ON OCTOBER 7, 1971, UTILIZING A WALLOPS FLIGHT CENTER LEASED HELICOPTER EQUIPPED WITH FOUR T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH THE CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES OF THE SMITHSONIAN INSTITUTE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN AERIAL IMAGERY OF THE RHODE RIVER WATERSHED FOR USE BY SMITHSONIAN INSTITUTE INVESTIGATORS IN COMPILING AN INTEGRATED STUDY OF THE WATERSHED VEGETATION, SOIL, AND SURFACE WATER OVER AN EXTENDED PERIOD OF TIME.
(MISSION W089, FLIGHT01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
172 9" X 9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078655

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	172 OBS			
TIME	EARTH	STATION TIME	YMD	172 OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	172 OBS	1 FLIGHT PER LINE	5000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

007202 RHODES RIVER WATERSHED VEGETATIVE AND DRAINAGE STUDIES PAGE 01
DATA COLLECTED: AUGUST 1971 TO AUGUST 1971 RECEIVED: SEPTEMBER 14, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, RHODES RIVER WATERSHED

ABSTRACT:
MISSION W030, FLIGHT01, WAS ACCOMPLISHED ON AUGUST 23, 1971, UTILIZING A WALLOPS FLIGHT CENTER LEASED HELICOPTER EQUIPPED WITH FOUR T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH THE CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES OF THE SMITHSONIAN INSTITUTE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN LARGE AND SMALL IMAGERY OF THE RHODES RIVER WATERSHED. THE IMAGERY WILL BE USED IN CONJUNCTION WITH EXTENSIVE GROUND TRUTH INFORMATION IN PREPARING A COMPREHENSIVE LAND USE AND ECOSYSTEMS STUDY OF THE WATERSHED.
(MISSION W080, FLIGHT01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
327 9" X 9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078655

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	327	OBS			
TIME	EARTH	STATION TIME	YMD	327	OBS	3 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	327	OBS	3 FLIGHTS PER LINE	3500 AND 10,000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

007191

RHODE RIVER WATERSHED STUDY

DATA COLLECTED: JULY 1971 TO JULY 1971

RECEIVED: SEPTEMBER 14, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, RHODES RIVER WATERSHED

ABSTRACT:

MISSION W073, FLIGHT01, WAS ACCOMPLISHED ON JULY 13, 1971, UTILIZING A WALLOPS FLIGHT CENTER LEASED HELICOPTER EQUIPPED WITH FOUR T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH THE CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES OF THE SMITHSONIAN INSTITUTE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN LARGE SCALE COLOR AND FALSE COLOR INFRARED IMAGERY OF THE RHODE RIVER WATERSHED FOR USE IN STUDYING THE INTERRELATIONSHIPS OF BIOLOGICAL, CULTURAL, AND METEOROLOGICAL FACTORS ON THE WATERSHED OVER AN EXTENDED PERIOD OF TIME.
(MISSION W073, FLIGHT01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
190 9" X 9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER   804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND   VIRGINIA USA   23337

GRID LOCATOR (LAT):
73078655

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	190	OBS			
TIME	EARTH	STATION TIME	YMD	190	OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	190	OBS	1 FLIGHT PER LINE	1200 AND 2500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	190	OBS	1 FLIGHT PER LINE	1200 AND 2500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

001150

RIVER PLANKTON DETECTION STUDY

DATA COLLECTED: JANUARY 1973 TO JANUARY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, SOUTH RIVER

ABSTRACT:

MISSION W184, FLT. 1, JAN. 12, 1973, WITH WALLOPS STA. C-54 AIRCRAFT EQUIPPED WITH 4 HASSELBLAD CAMERAS IN COOPERATION WITH THE NASA. LANGLEY RES. CTR. AND THE EPA. OBJECTIVE - TO CONTINUE THE STUDY OF IMAGING PLANKTON ACCUMULATIONS AT BORDERS OF THE SALT WEDGE ON ESTUARINE RIVERS USING AERIAL CAMERAS WITH PREDETERMINED FILM/FILTER COMBINATIONS. CLEAR WEATHER, VISIBILITY 10-12 MILES, AIR TEMP. 10 DEG. C AT 1000 FT., MSL WIND OF 25 KNOTS FROM 290 DEG.
(MISSION NO W184, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
ORIGINAL FILM
441 70 MM FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			17 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	17	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	441	OBS		4300 FT	40 MM FOCAL LENGTH

007239

SOUTH RIVER AND SEVERN RIVER SEWAGE OUTFALL DETECTION AND EUTROPHICATION STUDIES-MARYLAND

DATA COLLECTED: FEBRUARY 1973 TO FEBRUARY 1973

RECEIVED: OCTOBER 19, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, SOUTH RIVER AND SEVERN RIVER

ABSTRACT:

MISSION W189, FLIGHT 01, WAS ACCOMPLISHED ON FEBRUARY 22, 1973, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL MAPPING CAMERA IN COOPERATION WITH THE NASA LANGLEY RESEARCH CENTER FOR THE ENVIRONMENTAL PROTECTION AGENCY. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN LARGE SCALE INFRARED PHOTOGRAPHIC IMAGERY OF THE CHESAPEAKE BAY AT THE JUNCTION OF THE BAY AND THE MOUTH OF THE SOUTH AND SEVERN RIVERS FOR SEWAGE OUTFALL DETECTION AND EUTROPHICATION STUDIES. (MISSION W189, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
230, 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:

MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078634 730786 730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	7 STATIONS			
TIME	EARTH	STATION TIME	YMD	7 OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	7 OBS	1 FLIGHT PER LINE	700, 800, 1000, 3960, 10,000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

000262

SHOALS AND ISLANDS OFF THE MOUTH OF THE SUSQUEHANNA RIVER
DATA COLLECTED: AUGUST 1973 TO AUGUST 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND, SUSQUEHANNA RIVER, SASSAFRAS RIVER

ABSTRACT:

MISSION W227, FLT. 2, AUGUST 13, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS. OBJECTIVE - TO OBTAIN IMAGERY OF SHOALS AND ISLANDS OFF MOUTH OF SUSQUEHANNA RIVER IN CHESAPEAKE BAY. IMAGERY WILL BE COMPARED WITH IMAGERY TAKEN BEFORE TROPICAL STORM AGNES TO DETERMINE THE EFFECT OF THE STORM ON THESE SHOALS AND ISLANDS. FLIGHT MADE IN SCATTERED TO BROKEN CLOUDS WITH SOME HAZE, AIR TEMP. 5 DEG. C AT 10,500 FT., MSL WITH WIND OF 15 KNOTS FROM 320 DEG. (MISSION NO W227, FLT 2)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
50 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730796 730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	3	STATIONS			3 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	50	OBS		12500 FT	152 MM FOCAL LENGTH

ANNEX III

Part A

Section 2

Maryland - "Cities"

007203

BALTIMORE HARBOR BASE LINE STUDY

DATA COLLECTED: AUGUST 1971 TO AUGUST 1971

RECEIVED: SEPTEMBER 14, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., MARYLAND, BALTIMORE HARBOR

ABSTRACT:

MISSION W081, FLIGHT01, WAS ACCOMPLISHED ON AUGUST 25, 1971, UTILIZING A WALLOPS FLIGHT CENTER CHARTERED HELICOPTER EQUIPPED WITH FOUR T-11 AERIAL MAPPING CAMERAS. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN BASE LINE DATA FOR THE CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE OF THE BALTIMORE HARBOR AND ITS INDUSTRIAL, COMMERCIAL, AND RESICENTIAL BORDER AREAS. (MISSION W081, FLIGHT01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
90 9" X 9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER   804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73079625

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	90	OBS			
TIME	EARTH	STATION TIME	YMD	90	OBS	4 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	90	OBS	4 FLIGHTS PER LINE	10,000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

000193

BOWIE-ANNAPOLIS-BALTIMORE AND BALTIMORE-NEWARK URBAN AREA PLANNING STUDY
DATA COLLECTED: MARCH 1973 TO MARCH 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:
ERTS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., COASTAL, DELAWARE BAY, DELAWARE, MARYLAND, NEWARK, BOWIE-ANNAPOLIS AREA

ABSTRACT:

MISSION W193, FLT. 1, MARCH 16, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH AN I2S AND A T-11 AERIAL MAPPING CAMERA SYSTEM IN COOPERATION WITH MD. DEPT. OF STATE PLANNING. OBJECTIVE - TO OBTAIN LARGE SCALE AERIAL PHOTOGRAPHY FOR LAND USE PLANNING IN THE RAPIDLY DEVELOPING BOWIE-ANNAPOLIS-BALTIMORE AREA, AND THE BALTIMORE-NEWARK CORRIDOR. FLIGHT IN HAZY WEATHER WITH THIN OVERCAST, AIR TEMP. 5 DEG. C AT 9500 FT., MSL WITH WIND OF 30 KNOTS FROM 270 DEG. (MISSION NO W193, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
335 2.7" X 2.7" AND 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730796 730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	18	STATIONS			18 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	335	OBS		9500 FT	100 MM AND 152 MM FOCAL LENGTH

001196 URBAN AREA ANALYSIS-CAMBRIDGE, MARYLAND, MARYLAND DEPARTMENT OF STATE PLANNING

DATA COLLECTED: FEBRUARY 1973 TO FEBRUARY 1973 RECEIVED: JANUARY 01, 1976

PROJECTS:
LANDSAT

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, MARYLAND, CAMBRIDGE

ABSTRACT:

MISSION W186, FLT. 2, FEB. 9, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH T-11 CAMERA AND AN I2S CAMERA SYSTEM IN COOPERATION WITH MD. DEPT. OF STATE PLANNING. FLIGHT COVERED CAMBRIDGE, MD. AND ITS ENVIRONS. OBJECTIVE - TO OBTAIN URBAN DEVELOPMENT AND LAND USE PATTERNS IN AND AROUND CAMBRIDGE. CLEAR WEATHER WITH VISIBILITY 15-20 MILES, AIR TEMP. 10 DEG. C AT 9500 FT., MSL WITH WIND OF 25 KNOTS FROM 350 DEG.
(MISSION NO W186, FLT 2)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
38 2.7" X 2.7" AND 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1 STATIONS			2 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	2 STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	38 OBS		9500 FT	100 MM AND 152 MM FOCAL LENGTH

ANNEX III

Part A

Section 2

Maryland - "Oceanside"

007236

WAVE PROFILE STUDY-MARYLAND

DATA COLLECTED: AUGUST 1973 TO AUGUST 1973

RECEIVED: OCTOBER 19, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., MARYLAND

ABSTRACT:

MISSION W229, FLIGHT 01, WAS ACCOMPLISHED ON AUGUST 17, 1973, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL MAPPING CAMERA AND A HELIUM NEON LASER, IN COOPERATION WITH THE NASA LANGLEY RESEARCH CENTER. THE OBJECTIVE OF THE FLIGHT WAS TO MAKE A STUDY OF WAVE ACTION USING AERIAL PHOTOGRAPHY AND LASER PROFILE TAPES. (MISSION W229, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
49, 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
7307850150

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	1	STATIONS			
TIME	EARTH	STATION TIME	YMD	1	OBS	2 FLIGHTS		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	1	OBS	2 FLIGHTS	5000 AND 500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
WAVE AMPLITUDE	WATER	LASER		1	OBS	2 FLIGHTS		
WAVE DIRECTION	WATER	LASER		1	OBS	2 FLIGHTS		
WAVE SPEED	WATER	LASER		1	OBS	2 FLIGHTS		
WAVE PERIOD	WATER	LASER		1	OBS	2 FLIGHTS		

000192

INVESTIGATIONS OF MARYLAND'S TIDAL SHORELINES
DATA COLLECTED: FEBRUARY 1973 TO FEBRUARY 1973

PAGE 01
RECEIVED: JANUARY 01, 1976

PROJECTS:
ERTS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND, ASSATEAGUE ISLAND TO FENWICK ISLAND

ABSTRACT:
MISSION W188, FLT. 1, FEB. 12, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH A T-11 AND AN I2S CAMERA SYSTEM IN COOPERATION WITH MD. GEOLOGICAL SURVEY. OBJECTIVE - TO CONTINUE MONITORING THE MD. SHORELINES FOR CHANGES IN LAND FORM CONFIGURATION AND UNDERWATER SHIFTS IN SAND BARS AND CHANNELS. IMAGERY WILL ALSO BE USED WHEN POSSIBLE FOR LAND USE, COMMUNITY URBANIZATION, AND ARCHEOLOGICAL STUDIES. FLIGHT IN CLEAR WEATHER, AIR TEMP. 4 DEG. C AT 10,500 FT., MSL WITH WIND OF 28 KNOTS FROM 320 DEG.
(MISSION NO W188, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
235 2.7" X 2.7" AND 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787 730786 730796 730775 730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			11 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	11	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	235	OBS		10500 FT	100 MM AND 152 MM FOCAL LENGTH

000068

CHINCOTEAGUE BAY OVERFLIGHT
DATA COLLECTED: APRIL 1972 TO APRIL 1972

PAGE 0:
RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, MARYLAND, CHINCOTEAGUE BAY

ABSTRACT:
MISSION W124, FLT. 2, APRIL 27, 1972, OVER CHINCOTEAGUE BAY, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL CAMERA. OBJECTIVE - TO OBTAIN BASE LINE INFORMATION OF WETLANDS AND CULTURAL CHANGES OCCURRING THROUGHOUT THE WINTER MONTHS. FLIGHT IN CLEAR WEATHER, VISIBILITY 7-8 MILES, AIR TEMP. 0 DEG. C AT 7000 FT., MSL WITH WIND OF 15 KNOTS FROM 290 DEG. (MISSION NO W124, FLT 2)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
103 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730775 730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			3 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHMSL	3	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	103	OBS		7000 FT	152 MM FOCAL LENGTH

ANNEX III

Part A

Section 2

Maryland - "Maryland-Virginia"

007223

CHESAPEAKE BAY AREA LAND FORMS

DATA COLLECTED: APRIL 1972 TO APRIL 1972

RECEIVED: SEPTEMBER 16, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY AREA

ABSTRACT:

MISSION W117, FLIGHT 01, WAS ACCOMPLISHED ON APRIL 5, 1972, UTILIZING A WALLOPS FLIGHT CENTER QUEEN AIR AIRCRAFT EQUIPPED WITH FOUR HASSELBLAD CAMERAS, IN COOPERATION WITH NASA'S GODDARD SPACE FLIGHT CENTER. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN AERIAL IMAGERY OF A VARIETY OF LAND FORMS FOUND IN THE CHESAPEAKE BAY AREA. IMAGES WERE TAKEN OF BARRIER ISLANDS, INLAND WETLANDS, HEAVILY DISECTED UPLANDS, AND HEAVILY WOODED LOWLANDS.
(MISSION W117, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
277 70MM PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER   804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078650 73077555 73078503 73078635 73078634 73078754 73078740

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGIIUDE AND LATITUDE	277	STATIONS			
TIME	EARTH	STATION TIME	YMD	277	OBS	4 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	277	OBS	4 FLIGHTS PER LINE	5000 & 10,000 FEET	40 MM FOCAL LENGTH

004441

CHLOROPHYLL DETECTION STUDIES

DATA COLLECTED: JANUARY 1974 TO JANUARY 1974

RECEIVED: DECEMBER 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., POTOMAC RIVER

ABSTRACT:

MISSION W262, FLIGHT 01 WAS ACCOMPLISHED ON 30 JANUARY 1974. THE OBJECTIVE OF THE FLIGHT WAS TO DEVELOP TECHNIQUES FOR DETECTING WATER BORNE CHLOROPHYLL USING AERIAL CAMERAS FOR MULTI-BAND IMAGERY. (MISSION W262 FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
54 PHOTOPRINTS

FUNDING:
NASA

INVENTORY:

PUBLICATIONS:

CONTACT:
G. GREW 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786 730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	4	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHM	4	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT		4	STATIONS		17,500 FEET	40 MM FOCAL LENGTH

RESOURCE MANAGEMENT STUDY
DATA COLLECTED: OCTOBER 1973 TO OCTOBER 1973

RECEIVED: DECEMBER 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, WEST VIRGINIA

ABSTRACT:

MISSION W256, FLIGHT 1 WAS ACCOMPLISHED ON 12 OCTOBER 1973. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN MULTISPECTRAL IMAGERY OF RIVER, FOREST AREAS, AND STRIP MINES FOR USE IN MANAGEMENT STUDIES.
(MISSION NUMBER W256 FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
520 PHOTOPRINTS

FUNDING:
NASA

INVENTORY:

PUBLICATIONS:

CONTACT:
MR. WALTERS 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730797 730798 730799

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	8 STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHM	8 STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT		8 STATIONS		3,000 AND 10,000 FEET	100 MM AND 152 AND FOUR-TENTHS MM FOCAL LENGTHS

MULTI-CHANNEL OCEAN COLOR SENSOR AND HASSELBLAD, POTOMAC RIVER WATER POLLUTION STUDY

DATA COLLECTED: APRIL 1973 TO APRIL 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, POTOMAC RIVER

ABSTRACT:
MISSION W204, FLIGHT 1, APRIL 13, 1973, UTILIZING THE WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH FOUR HASSELBLAD CAMERAS AND A MULTI-CHANNEL OCEAN COLOR SENSOR (MOCS) IN COOPERATION WITH NASA'S LANGLEY RESEARCH CENTER FOR ENVIRONMENTAL PROTECTION AGENCY. THE OBJECTIVE OF THE FLIGHT WAS TO DIFFERENTIATE POLLUTION FROM NORMAL WATER IN THE POTOMAC RIVERS BY USING FOUR HASSELBLAD CAMERAS EQUIPPED WITH DIFFERING FILM/FILTER COMBINATIONS FOR PRODUCING SPECIFIC SPECTRAL RESPONSES IN CONJUNCTION WITH THE MULTI-CHANNEL OCEAN COLOR SENSOR (MOCS). CLEAR WEATHER, FEW SCATTERED CLOUDS. AIR TEMPERATURE 12 DEG. C AT 10,5000 FT. MSL, WIND OF 20 KNOTS FROM 300 DEG. (MISSION NO W204, FLT 1)

DATA AVAILABILITY:
MISSION NO W204, FLT 1

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
192 70 MM FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	8	STATIONS			8 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	192	OBS		10500 FT	40 MM FOCAL LENGTH, MULTICHANNEL OCEAN COLOR SENSOR

000042

NASA/LANGLEY PLANKTON DETECTION STUDIES
DATA COLLECTED: OCTOBER 1972 TO OCTOBER 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, POTOMAC RIVER

ABSTRACT:

MISSION W141, FLT. 1 WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH T-11 AND I2S CAMERA SYSTEM ON OCT. 2, 1972, IN COOPERATION WITH NASA'S LANGLEY RES. CTR. AND ENVIRONMENTAL PROTECTION AGENCY. OBJECTIVE - TO EXPLORE THE FEASIBILITY OF IMAGING PLANKTON ACCUMULATIONS AT THE BORDERS OF THE SALT WEDGE ON ESTUARINE RIVERS USING AERIAL CAMERAS WITH PRE-DETERMINED FILM/FILTER COMBINATIONS. FLIGHT IN CLEAR WEATHER, VISIBILITY 10-15 MILES, AIR TEMP. 5 DEG. C AT 10,000 FT., MSL WITH WIND 18 KNOTS FROM 300 DEG. AT 10,000 FT. AND '2 KNOTS FROM 335 DEG. AT 5000 FT. (MISSION W141, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
400 9" X 9" AND 70-MM FRAMES.

FUNDING:

INVENTORY:

192

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			4 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHL	4	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	400	OBS		140 OBS AT 10000 FT, 260 OBS AT 5000 FT	6 INCH FOCAL LENGTH

007390

POTOMAC AND PATUXENT RIVERS PHYTOPLANKTON STUDIES

DATA COLLECTED: OCTOBER 1973 TO OCTOBER 1973

RECEIVED: NOVEMBER 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, POTOMAC AND PATUXENT RIVERS

ABSTRACT:

MISSION W250, FLIGHT 01, WAS ACCOMPLISHED ON OCTOBER 24, 1973, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH FOUR HASSELBLAD CAMERAS, AND ONE T-11 AERIAL MAPPING CAMERA IN COOPERATION WITH NASA'S LANGLEY RESEARCH CENTER. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN MULTISPECTRAL IMAGERY OF THE POTOMAC AND PATUXENT RIVERS FOR USE IN ANALYZING CHLOROPHYLL CONCENTRATIONS IN PLANKTON PLUMES IN THE REGION OF THE SALT WEDGES ON THE TWO RIVERS. (MISSION W250, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
304, 70MM PRINTS, 73, 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078753 73078732 73078750 73078730 73078603 73078644 73078645 73078642

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	377	OBS			
TIME	EARTH	STATION TIME	YMD	377	OBS	5 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	377	OBS	5 FLIGHTS PER LINE	10,000 AND 8000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	377	OBS	5 FLIGHTS PER LINE	10,000 AND 8000 FEET	40MM FOCAL LENGTH

000062

TRI-COUNTY COUNCIL FOR SOUTHERN MARYLAND WATER POLLUTION STUDIES

DATA COLLECTED: APRIL 1972 TO APRIL 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, POTOMAC RIVER, PATUXENT RIVER

ABSTRACT:

MISSION W119, FLT. 3 ACCOMPLISHED WITH WALLOPS STATION C-54 AIRCRAFT WITH TWO T-11 AERIAL CAMERAS ON APRIL 18, 1972. IN COOPERATION WITH TRI-COUNTY COUNCIL FOR SOUTHERN MARYLAND TO STUDY WATER POLLUTION. FLIGHT MADE IN CLEAR WEATHER, AIR TEMP. 0 DEG. C AT 10,500 FT., MSL WITH WIND OF 30 KNOTS FROM 290 DEG. (MISSION NO W119, FLT 3)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
80 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730786 730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			6 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	6	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	80	OBS		10500 FT	6 INCH FOCAL LENGTH

WATER POLLUTION STUDIES ON THE POTOMAC, SEVERN, AND SOUTH RIVERS
DATA COLLECTED: MARCH 1973 TO MARCH 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND POTOMAC RIVER, SOUTH RIVER, CAMBRIDGE-SECRETARY, PITTSVILLE-SALISBURY, SEVERN RIVER

ABSTRACT:

MISSION W196, FLT. 1, MARCH 19, 1973, WITH WALLOPS STA. C-54 AIRCRAFT EQUIPPED WITH 3 HASSELBLAD CAMERAS AND AAD-2 IR SCANNER IN COOPERATION WITH NASA'S LANGLEY RES. CTR. FOR THE EPA. OBJECTIVE - IMAGE WATER POLLUTION AND POLLUTION OUTFALLS ON POTOMAC, SEVERN AND SOUTH RIVERS. LAND FILLS WERE IMAGED OVER THE MARYLAND TOWNS OF SALISBURY, PITTSVILLE, SECRETARY, AND BLACKWATER. WEATHER OF BROKEN CLOUDS, VISIBILITY UP TO 7 MILES, AIR TEMP. 1 DEG. C AT 1000 FT., MSL WIND OF 30-40 KNOTS FROM 300 DEG. (MISSION NO W196, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
ORIGINAL FILM
198 70 MM FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730796 730786 730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			11 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	11	STATIONS			
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	99	OBS		1000 FT	AAD-2 SCANNER 20.1 MM FOCAL LENGTH
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	99	OBS		1000 FT	40 MM FOCAL LENGTH

000204

RIVER AND RESERVOIR POLLUTION STUDIES
DATA COLLECTED: JULY 1973 TO JULY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND, POTOMAC RIVER, YORK-PAMUNKEY-CHICKAHOMINY RIVERS, APPOMATTOX RIVER, ROANOKE RIVER, JOHN KERR RESERVOIR

ABSTRACT:

MISSION W233, FLT. 1, ACCOMPLISHED JULY 13, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH 4 HASSELBLAD CAMERAS AND A T-11 AERIAL MAPPING CAMERA, IN COOPERATION WITH NASA'S LANGLEY RES. CTR. OBJECTIVE - TO OBTAIN MULTI-SPECTRAL IMAGERY OF THE KERR RESERVOIR AND POTOMAC, YORK, AND CHICKAHOMINY RIVERS FOR USE IN WATER POLLUTION STUDIES. FLIGHT IN CLEAR WEATHER WITH VISIBILITY UP TO 6 MILES, AIR TEMP. 12 DEG. C AT 9500 FT., MSL WITH WIND OF 15 KNOTS FROM 315 DEG. (MISSION NO W233, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
560 70 MM AND 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730787 730788 730776 730777 730768

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	14	STATIONS			14 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	560	OBS		9500 FT	40 MM AND 152 MM FOCAL LENGTH, MULTI-SPECTRAL

CHLOROPHYLL CONCENTRATION STUDIES OF THE YORK, PAMUNKEY AND POTOMAC RIVERS

DATA COLLECTED: MAY 1973 TO MAY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, POTOMAC RIVER, PAMUNKEY RIVER, YORK RIVER

ABSTRACT:

MISSION W215, FLIGHT 1, MAY 4, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH 4 HASSELBLADS AND 1 T-11 AERIAL MAPPING CAMERA IN COOPERATION WITH NASA'S LANGLEY RES. CTR. AND EPA. OBJECTIVE - TO IMAGE CHLOROPHYLL CONCENTRATIONS DUE TO SUBMERGED PHYTOPLANKTON BUILDUP IN YORK, PAMUNKEY AND POTOMAC RIVERS. WEATHER - HEAVY TO BROKEN CLOUDS, VISIBILITY UP TO 6 MILES, AIR TEMP. 3 DEG. C AT 10,500 FT., MSL WITH WIND OF 25 KNOTS FROM 280 DEG.
(MISSION NO W215, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
140 70 MM AND 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730776 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS			3 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	3	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	140	OBS		10500 FT	40 MM AND 152 MM FOCAL LENGTH

001220

MOVEMENT OF SUSPENDED PARTICULATE AND SOLUTE CONCENTRATIONS WITHIN THE CHESAPEAKE BAY AND ITS MAJOR TRIBUTARIES
DATA COLLECTED: JUNE 1973 TO JUNE 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:
LANDSAT

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, DELAWARE CANAL, CHOPTANK RIVER, WICOMICO RIVER, RAPPAHANNOCK RIVER, YORK RIVER

ABSTRACT:

MISSION W220, FLI. 1, JUNE 11, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH T-11 AERIAL MAPPING CAMERA AND I2S CAMERA SYSTEM IN COOPERATION WITH WATERWAYS EXPERIMENT STATION OF THE CORPS OF ENGINEERS. OBJECTIVE - TO OBTAIN MULTI-BAND IMAGERY OF THE MAJOR RIVERS EMPTYING INTO CHESAPEAKE BAY. IMAGERY WILL BE USED IN DELINEATING AREAS OF HIGH PARTICULATE AND SOLUTE CONCENTRATIONS. WEATHER - HAZY WITH A FEW SCATTERED CLOUDS, VISIBILITY UP TO 5 MILES, AIR TEMP. 10 DEG. C AT 10,000 FT., MSL WITH WIND OF 21 KNOTS FROM 320 DEG.
(MISSION NO W220, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
266 2.7" X 2.7" AND 9" X 9" FRAMES

198

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730795 730786 730785 730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	5	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	11	STATIONS			11 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	266	OBS		10500 FT	152 MM AND 100 MM FOCAL LENGTH MULTI-BAND IMAGERY

001201

MOVEMENT OF SUSPENDED AND SOLUTE CONCENTRATIONS WITHIN THE CHESAPEAKE BAY RIVER SYSTEMS

DATA COLLECTED: MAY 1973 TO MAY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, DELAWARE CANAL, CHOPTANK RIVER, WICOMICO RIVER, RAPPAHANNOCK RIVER, YORK RIVER

ABSTRACT:

MISSION W203, FLIGHT 1, MAY 16, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH T-11 AERIAL MAPPING CAMERA AND I2S AERIAL CAMERA SYSTEM. FLIGHT MADE FOR U. S. ARMY ENGINEERS WATERWAYS EXPERIMENT STATION AS AN ERTS UNDERFLIGHT MISSION. OBJECTIVE-TO PROVIDE REMOTE SENSOR IMAGERY OF CHESAPEAKE BAY RIVERS IN SAME SPECTRAL BANDS FROM THE AIRCRAFT'S I2S CAMERA AS THAT OF MULTI-SPECTRAL SCANNER ON ERTS SATELLITE.
(MISSION NO W203, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
373 2.7" X 2.7" AND 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730795 730786 730785 730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	6	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	10	STATIONS			10 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	373	OBS		10000 FT	100MM AND 152 MM FOCAL LENGTH

MOVEMENT OF SUSPENDED PARTICULATE AND SOLUBLE CONCENTRATIONS WITHIN THE CHESAPEAKE BAY RIVER SYSTEMS

DATA COLLECTED: FEBRUARY 1973 TO FEBRUARY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:
LANDSAT

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA YORK RIVER, RAPPAHANNOCK RIVER, WICOMICO RIVER, CHOPTANK RIVER, ELK RIVER TO DELAWARE RIVER

ABSTRACT:

MISSION W190, F1. 1, FEB. 28, 1973, WITH WALLOPS STA. C-54 AIRCRAFT EQUIPPED WITH I2S AND T-11 AERIAL MAPPING CAMERA SYSTEMS IN COOPERATION WITH U S ARMY ENGINEER WATERWAYS STA. FLIGHT COVERED PORTIONS OF THE RAPPAHANNOCK, YORK, CHOPTANK, WICOMICO, AND ELK RIVERS AND THE CHESAPEAKE AND DELAWARE CANAL. OBJECTIVE - TO OBTAIN WINTER IMAGERY OF THESE RIVERS FOR MONITORING THE INFLOW OF SUSPENDED PARTICLES AND DIFFERENTIATE MAGNITUDES OF SOLUTE CONCENTRATIONS.
(MISSION NO W190, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
ORIGINAL FILM
74 9 X 9 INCH FRAMES; 169 2.7 X 2.7 INCH FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT.
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730795 730786 730785 730776 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			9 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	9	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	243	OBS			100 MM AND 152 MM FOCAL LENGTH

001277

MOVEMENT OF SUSPENDED PARTICLE AND SOLUTE CONCENTRATIONS WITHIN CHESAPEAKE BAY RIVERS-RAPPAHANNOCK, YORK, CHOPTANK, WICOMOCO, ELK, AND CHESAPEAKE DELAWARE CANAL

DATA COLLECTED: OCTOBER 1972 TO OCTOBER 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, DELAWARE BAY, CHESAPEAKE DELAWARE CANAL, CHESAPEAKE BAY, RAPPAHANNOCK RIVER, YORK RIVER, CHOPTANK RIVER, WICOMOCO RIVER, ELK RIVER, JAMES RIVER

ABSTRACT:

MISSION W172, FLT. 1, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH T-11 AND AN I2S CAMERA SYSTEM ON OCTOBER 10, 1972, IN COOPERATION WITH U. S. ARMY ENGINEER WATERWAYS EXPERIMENT STATION (WES). FLIGHT COVERED PORTIONS OF RAPPAHANNOCK, YORK, CHOPTANK, WICOMOCO, AND ELK RIVERS, AND CHESAPEAKE AND DELAWARE CANAL. OBJECTIVE - TO LOCATE AND MONITOR MOVEMENT OF SUSPENDED PARTICLES AND SOLUTE CONCENTRATIONS WITH INFLOW AND TIDAL ACTION. CLEAR WEATHER WITH BLUE SKIES, VISIBILITY 10-15 MILES, AIR TEMP. +7 DEG. AT 9,500 FT. MSL WITH WIND OF 8 KNOTS FROM 360 DEG. (MISSION NO W172, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
386 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730795 730785 730786 730776 730766 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1 STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	11 STATIONS			11 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	386 OBS		318 OBS AT 9500 FT, 68 OBS AT 10500 FT	6 INCH FOCAL LENGTH

000063 U S PARK SERVICE NORTH CAROLINA, VIRGINIA, AND MARYLAND OUTER BANK STUDIES

DATA COLLECTED: APRIL 1972 TO APRIL 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, MARYLAND, NORTH CAROLINA OUTER BANKS

ABSTRACT:

MISSION W120, FLT. 1, ACCOMPLISHED WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS ON APRIL 19, 1972, IN COOPERATION WITH U. S. PARK SERVICE AND UNIV. OF VA. OBJECTIVE - TO UTILIZE FALSE COLOR IMAGERY IN ASSESSING LAND AND BIOLOGICAL MODIFICATIONS OF N. C., VA. AND MARYLAND OUTER BANKS.
(MISSION NO W120, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
339 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730775 730755

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			11 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	11	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	239	OBS		138 OBS AT 6000 FT, 201 OBS AT 10000 FT	6 INCH FOCAL LENGTH

ANNEX III

Part A

Section 2

North Carolina

203

002707

NORTH CAROLINA WETLANDS, THEIR DISTRIBUTION AND MANAGEMENT

DATA COLLECTED: AUGUST 1957 TO JULY 1959

RECEIVED: DECEMBER 05, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, COASTAL, U.S., NORTH CAROLINA

ABSTRACT:

A LARGE SCALE SURVEY OF WETLANDS IN COASTAL NORTH CAROLINA WAS CONDUCTED BETWEEN 1957 AND 1959. PRINCIPAL STUDY OBJECTIVES WERE TO LOCATE, CLASSIFY, AND MAP WETLAND AREAS, AND TO EVALUATE THEIR DEVELOPMENT POTENTIAL FOR WILDLIFE (ESPECIALLY WATERFOWL). THIS DATA BASE IS UTILIZED BY THE PERMIT SECTION OF THE N.C. DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES WHEN PROJECTS INVOLVE WETLAND ALTERATIONS.
(TEXT, TABULATION, AND MAPS FOR EACH WETLAND COUNTY)

DATA AVAILABILITY:
COST OF DUPLICATION

PLATFORM TYPES:
AIRCRAFT: FIXED STATION

ARCHIVE MEDIA:
REPORTS
169 PAGE REPORT, DATED APRIL 1962

FUNDING:
FEDERAL AID IN WILDLIFE RESTORATION, PROJECT W-6-R

204

INVENTORY:

PUBLICATIONS:

CONTACT:

KENNETH A. WILSON 919 829 7896
NORTH CAROLINA WILDLIFE RESOURCES COMMISSION
RALEIGH NORTH CAROLINA USA 27611

GRID LOCATOR (LAT):
730765 730766 730755 730756 730757 730746 730747 730748 730737 730738

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	GENERAL AREA	MAP	41	STATIONS			
TIME	EARTH	STATION TIME	YMD	41	STATIONS			
PHOTOGRAPH	EARTH	BLACK AND WHITE CAMERA FROM AIRCRAFT	MARSH ACRES	41	OBS			PHOTOS TRANSFERRED TO DETAILED COUNTY MAPS TO LOCATE MARSH TYPE MAPS FOR 41 COASTAL PLAIN COUNTIES
SPECIES DETERMINATION	LAND	KEY	LIST PER WETLAND TYPE,	41	OBS			

```
      PARAMETER IDENTIFICATION SECTION:

NAME            SPHERE         METHOD           UNITS            DATA AMOUNT       FREQUENCY     HEIGHT/DEPTH   REMARKS
............... .............. ................ ................ ................. ............. .............. ...............

 OF BENTHIC                                     BY COUNTY
 PLANTS
COMMUNITY       LAND           CALCULATED       DOMINANCE PER    41       OBS
 STRUCTURE                                       TYPE OF
 ANALYSIS                                        WETLAND PER
                                                 COUNTY
```

```
004750
                                   NORTH CAROLINA BEACH EROSION
                            DATA COLLECTED:  1938 TO  1971                                      PAGE 01
PROJECTS:                                                                  RECEIVED: DECEMBER 29, 1975

GENERAL GEOGRAPHIC AREA:
     NORTH ATLANTIC, COASTAL, U.S., NORTH CAROLINA

ABSTRACT:
     A SURVEY OF BEACH EROSION OF NORTH CAROLINA WAS CONDUCTED FROM 1938 TO 1971. UTILIZING BLACK AND WHITE CAMERA'S FROM
     AIRPLANES, THE RATE OF EROSION WAS DETERMINED BY THE RELATIONSHIP OF THE BEACH TO FIXED REFERENCE POINTS.

DATA AVAILABILITY:

PLATFORM TYPES:
     AIRCRAFT

ARCHIVE MEDIA:
     REPORTS
     ONE 31 PAGE REPORT

FUNDING:
     NORTH CAROLINA DIVISION OF WATERWAYS AND SEASHORES

INVENTORY:

PUBLICATIONS:
     DATA CONTAINED IN REPORT NUMBER 73-1, A SURVEY OF NORTH CAROLINA BEACH EROSION BY PHOTO METHODS

CONTACT:
     H.E. WAHLS   919 737 3326
     NORTH CAROLINA STATE UNIVERSITY
     THE CENTER FOR MARINE AND COASTAL STUDIES
     RALEIGH   NORTH CAROLINA USA  27607

GRID LOCATOR (LAT):
     730738 730747 730756 730766

         PARAMETER IDENTIFICATION SECTION:

NAME             SPHERE        METHOD           UNITS            DATA AMOUNT        FREQUENCY      HEIGHT/DEPTH   REMARKS
................ ............. ................ ................ .................. .............. .............. ................
POSITION         EARTH         FIXED POINT      LATITUDE AND     15       STATIONS
                                                 LONGITUDE
TIME             EARTH         STATION TIME     YMD              15       STATIONS
PHOTOGRAPH       EARTH         BLACK AND WHITE                   15       STATIONS
                                CAMERA FROM
                                AIRCRAFT
DEPOSITION RATE  LAND          VISUAL                            15       STATIONS
```

001203

CHLOROPHYLL CONCENTRATION STUDIES IN ALBERMARLE SOUND AND THE CHOWAN RIVER

DATA COLLECTED: APRIL 1973 TO APRIL 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, NORTH CAROLINA, ALBERMARLE SOUND, CHOWNN RIVER

ABSTRACT:

MISSION W206, FLIGHT 1, APRIL 20, 1973. WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH 4 HASSELBLAD CAMERAS AND 1 T-11 AERIAL MAPPING CAMERA IN COOPERATION WITH NASA'S LANGLEY RES. CTR. AND EPA. OBJECTIVE - TO IMAGE CHLOROPHYLL CONCENTRATIONS DUE TO PHYTOPLANKTON IN ALBERMARLE SOUND-CHOWAN RIVER AREA OF N. C.
(MISSION NO W206, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
167 70 MM AND 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS			6 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	6	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	167	OBS			

001199

BARRIER ISLAND STUDIES OF NORTH CAROLINA

DATA COLLECTED: MAY 1973 TO MAY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, NORTH CAROLINIA OUTER BANKS

ABSTRACT:

MISSION W195, FLIGHT 1, MAY 11, 1973, WITH WALLOPS STATION C-54 AIRCRAFT WITH A T-11 AERIAL MAPPING CAMERA IN COOPERATION WITH UNIV. OF VA. AND U. S. PARK SERVICE. FLIGHT A CONTINUATION OF A PROGRAM OF MISSIONS DESIGNED TO ILLUSTRATE CHANGING CHARACTERISTICS OF BARRIER ISLANDS DUE TO WAVE AND WIND ACTIONS FROM NEAR SHORE CURRENTS AND STORMS.
(MISSION NO W195, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
254 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730765 730755

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			5 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	5	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	254	OBS		9500 FT	152 MM FOCAL LENGTH

007215

NORTH CAROLINA BARRIER ISLAND STUDY
DATA COLLECTED: FEBRUARY 1972 TO FEBRUARY 1972

RECEIVED: SEPTEMBER 16, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., NORTH CAROLINA, BARRIER ISLANDS

ABSTRACT:

MISSION W107, FLIGHT 01, WAS ACCOMPLISHED ON FEBRUARY 4, 1972, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH ONE T-11 AERIAL MAPPING CAMERA IN COOPERATION WITH THE GEOLOGICAL DEPARTMENT OF THE UNIVERSITY OF VIRGINIA FOR THE U.S. PARK SERVICE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN AERIAL IMAGERY OF THE NORTH CAROLINA BARRIER ISLANDS FOR A CONTINUING STUDY OF LITTORAL CHANGES CAUSED BY TIDAL AND STORM ACTION OVER AN EXTENDED PERIOD OF TIME. (MISSION W107, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
285 9"X9" PRINTS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73076525 73075555 73075535 73075525 73075610 73074645 73074635

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	285	OBS			
TIME	EARTH	SAMPLING TIME	YMDHM	285	OBS	2 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	285	OBS	2 FLIGHT PER LINE	2500, 5000 & 10,000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

ANNEX III

Part A

Section 2

Pennsylvania

007221

EDDYSTONE THERMAL POWER PLANT STUDY-PENNSYLVANIA
DATA COLLECTED: MARCH 1972 TO MARCH 1972

PAGE 01
RECEIVED: SEPTEMBER 16, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., PENNSYLVANIA

ABSTRACT:

MISSION W116, FLIGHT 01, WAS ACCOMPLISHED ON MARCH 28, 1972, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL CAMERA AND AN AAD-2 THERMAL IR SCANNER IN COOPERATION WITH THE U.S. ARMY ENGINEER WATERWAYS EXPERIMENT STATION. THE OBJECTIVE OF THE FLIGHT WAS TO IMAGE THE EXTENT AND INTENSITY OF THERMAL PLUMES EMITTED BY THE EDDYSTONE POWER PLANT AT PHILADELPHIA PENNSYLVANIA. THE IR PRINTS DID NOT TAKE.
(MISSION W116, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
17 9"X9" PRINTS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER   804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73079555

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	17	OBS			
TIME	EARTH	STATION TIME	YMD	17	OBS	1 FLIGHT		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	17	OBS	1 FLIGHT	5000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

ANNEX III

Part A

Section 2

Virginia - "General"

008673

YORK RIVER, MOBJACK BAY EEL GRASS STUDIES-VIRGINIA
DATA COLLECTED: JUNE 1974 TO JUNE 1974

RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., VIRGINIA

ABSTRACT:

MISSION W290, FLIGHT 01, WAS ACCOMPLISHED ON JUNE 13, 1974, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH FOUR HASSELBLAD 70MM CAMERAS AND AN I2S "B" MULTIBAND CAMERA SYSTEM IN COOPERATION WITH THE VIRGINIA INSTITUTE OF MARINE SCIENCE. THE OBJECTIVE OF THE FLIGHT WAS TO STUDY THE DISTRIBUTION OF EEL GRASS ALONG THE WESTERN SHORE OF THE CHESAPEAKE BAY IN THE YORK RIVER, AND FROM MOBJACK BAY TO THE MOUTH OF THE RAPPAHANNOCK RIVER. (MISSION W290, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
632 70MM PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73077613 73077635 73077632 73077653

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	632	OBS			
TIME	EARTH	SAMPLING TIME	YMDHM	632	OBS	8 FLIGHTS/ LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	632	OBS	8 FLIGHTS/ LINE	9,500 FEET	40MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	632	OBS	8 FLIGHTS/ LINE	9,500 FEET	100MM FOCAL LENGTH

VIRGINIA WETLAND STUDY
DATA COLLECTED: FEBRUARY 1972 TO FEBRUARY 1972

RECEIVED: SEPTEMBER 16, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., VIRGINIA

ABSTRACT:

MISSION W106, FLIGHT 02, WAS ACCOMPLISHED ON FEBRUARY 1, 1972, UTILIZING A WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH THE VIRGINIA INSTITUTE OF MARINE SCIENCE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN AERIAL COLOR INFRARED PHOTOGRAPHY OF MARSHES AND WETLANDS DURING THE DORMANT WINTER PERIOD FOR COMPARISON WITH IMAGERY TAKEN DURING THE ACTIVE SEASON.
(MISSION W106, FLIGHT 02)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
130 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

214

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER   804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73077555 73077634 73077655

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	120	OBS			
TIME	EARTH	SAMPLING TIME	YMDHM	130	OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	130	OBS	1 FLIGHT PER LINE	5000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

ANNEX III

Part A

Section 2

Virginia - "Rivers"

JAMES RIVER WATER POLLUTION STUDY-VIRGINIA

DATA COLLECTED: MAY 1974 TO MAY 1974

RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., VIRGINIA, HAMPTON ROADS, JAMES RIVER, HOG ISLAND

ABSTRACT:

MISSION W276, FLIGHT 01, WAS ACCOMPLISHED ON MAY 28, 1974, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH FOUR HASSELBLAD CAMERAS, A T-11 AERIAL MAPPING CAMERA, AND A MULTICHANNEL OCEAN COLOR SENSOR IN COOPERATION WITH NASA'S LANGLEY RESEARCH CENTER. THE OBJECTIVE OF THE FLIGHT WAS TO STUDY WATER POLLUTION AS RELATED TO EUTROPHICATION LEVELS IN THE JAMES RIVER FROM HOPEWELL TO THE HAMPTON ROADS/CRANEY ISLAND INDUSTRIAL WATERFRONT.
(MISSION W276, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
284 70MM PRINTS; 71 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

216

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73077733 73077625 73076653 73076643

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	355 OBS			
TIME	EARTH	STATION TIME	YMD	355 OBS	5 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINT	284 OBS	5 FLIGHTS PER LINE	3000 AND 17,500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINT	71 OBS	5 FLIGHTS PER LINE	3000 AND 17,500 FEET	40MM FOCAL LENGTH

000048

TROPICAL STORM "AGNES" FLOOD STUDY OF THE JAMES RIVER
DATA COLLECTED: JUNE 1972 TO JUNE 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER

ABSTRACT:

MISSION W146, FLT. 2, JUNE 26, 1972, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS. IN COOPERATION WITH VA. INSTITUTE OF MARINE SCI. OBJECTIVE - TO ACQUIRE BLACK & WHITE AIRBORN IMAGERY TO ASSESS THE FLOODING EFFECTS AND DAMAGE CREATED BY TROPICAL STORM "AGNES" ALONG THE JAMES RIVER. FLIGHT IN GOOD WEATHER, SOME OVERCAST, SLIGHT HAZE, AIR TEMP. 20 DEG. C AT 3000 FT., MSL WITH WIND OF 10 KNOTS FROM 160 DEG., SLIGHT MALFUNCTION IN CAMERA 2 WHICH CAUSED LAG OF FRAMES. (MISSION W146, FLT 2)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
280 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI   804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	9	STATIONS			9 FLIGHT LINES
PHOTOGRAPH	EARTH	BLACK AND WHITE CAMERA FROM AIRCRAFT	PHOTOGRAPHS	280	OBS		3000 FT	6 INCH FOCAL LENGTH

001237

REMOTE SENSING: HOG ISLAND THERMAL STUDIES
DATA COLLECTED: JUNE 1972 TO PRESENT

RECEIVED: AUGUST 27, 1973

PROJECTS:
VIMS REMOTE SENSING

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, JAMES RIVER

ABSTRACT:

INTERPERTATION AND ANALYSIS OF REMOTE SENSING BY INFRARED SCANNER FLOWN BY NASA, WALLOPS STATION. REPORT CONTAINS WATER SURFACE THERMAL REPRESENTATIONS. GROUND TRUTH DATA OBTAINED IN CONJUNCTION WITH AEC PROJECT AT-(40-1)-4067 AND AEC REPORT NO ORO-4067-4; THERMAL EFFECTS OF THE SURREY NUCLEAR POWER PLANT ON THE JAMES RIVER, VIRGINIA; SPECIAL REPORT NUMBER 33 IN APPLIED MARINE SCIENCE AND OCEAN ENGINEERING.
(MISSION NO W127, FLT 1 AND 2, W137, FLT 1; W144, FLT 1; W157, FLT 1; W197, FLT 1 AND 2; W205, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
REPORTS
20 PAGES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
HAYDEN GORDON 804-642-2111 X97
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			TRANSECT MONITERED SIX TIMES
TIME	EARTH	STATION TIME	YMDL	6	STATIONS			TRANSECT MONITERED SIX TIMES
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	IR PHOTOGRAPHS	150	OBS			COLOR ENHANCED PHOTOGRAPHS: SURFACE THERMAL REPRESENTATION; SUPPORTING

```
                                    REMOTE SENSING: HOG ISLAND THERMAL STUDIES (CONT.)
     PARAMETER IDENTIFICATION SECTION:                                                                         PAGE 32
NAME            SPHERE         METHOD            UNITS            DATA AMOUNT        FREQUENCY      HEIGHT/DEPTH   REMARKS
............... ............. ................. ................ ................. ............. ............. ...............
                                                                                                                BLACK AND
                                                                                                                WHITE AND
                                                                                                                COLOR PHOTOGRAP
                                                                                                                HY
```

000195

SURRY/HOG ISLAND, VIRGINIA NUCLEAR POWER PLANT DISCHARGE
DATA COLLECTED: APRIL 1973 TO APRIL 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, VIRGINIA, HOG ISLAND

ABSTRACT:

MISSION W205, FLT. 1, APRIL 17, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL MAPPING CAMERA AND AN AAD-2 THERMAL INFRARED SCANNER, IN COOPERATION WITH VA. INSTITUTE OF MARINE SCIENCE. OBJECTIVE - TO OBTAIN COLOR AND THERMAL INFRARED IMAGERY OF JAMES RIVER IN THE AREA SURROUNDING THE OUT FALL FROM THE SURRY/HOG ISLAND NUCLEAR POWER PLANT. INFORMATION OBTAINED WILL BE USED FOR STUDYING THE DYNAMICS OF THE HEAT PLUME PRODUCED BY THE POWER PLANT. FLIGHT IN WEATHER WITH THIN OVERCAST AT 5000 FT., VISIBILITY UP TO 70 MILES, AIR TEMP. 20 DEG. C AT 1000 FT., MSL WITH WIND OF 6-10 KNOTS FROM 285 DEG.
(MISSION NO W205, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
34 9" X 9" FRAMES AND 1 ROLL SCANNER FILM

FUNDING:

220

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1 STATIONS			7 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	35 STATIONS			
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	35 OBS		19 OBS AT 5000 FT, 15 OBS AT 4500 FT, 1 ROLL FILM AT 2000, 1000, 500 FT	152 MM FOCAL LENGTH AAD-2 SCANNER

000040

NUCLEAR POWER PLANT STUDY

DATA COLLECTED: OCTOBER 1972 TO OCTOBER 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, HOG ISLAND

ABSTRACT:

MISSION W138, FLT. 1, OCTOBER 18, 1972, ALONG SHORES OF HOG ISLAND ON JAMES RIVER UTILIZING WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH AAD-2 THERMAL IR SCANNER. OBJECTIVE - TO DETECT AND IMAGE THERMAL VARIATIONS BETWEEN DISCHARGE PLUMES FROM HOG ISLAND NUCLEAR POWER PLANT AND SURROUNDING WATER IN JAMES RIVER. (MISSION W138, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
ONE ROLL FILM; 3 FLIGHT LINES; 3 RUNS.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
....	....	....	....	....		....	....	....
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			3 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	3	STATIONS			
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	1	OBS		1500, 3000, 5000 FT	AAD-2 IR SCANNER, 1 ROLL OF FILM

00125G

VIRGINIA INSTITUTE OF MARINE SCIENCE-HOG ISLAND, VIRGINIA
DATA COLLECTED: AUGUST 1972 TO AUGUST 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, HOG ISLAND

ABSTRACT:

MISSION W157, FLT. 1, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH ONE T-11 AERIAL CAMERA AND ONE H.R.B. SINGER MODEL AAD-2 THERMAL SCANNER ON AUG. 18, 1972, IN COOPERATION WITH THE VA. INSTITUTE OF MARINE SCI. IN HOG ISLAND, JAMES RIVER, VA. REGION. OBJECTIVE - TO UTILIZE BLACK AND WHITE PHOTOGRAPHY AND THERMAL IMAGERY TO INVESTIGATE THERMAL DISCHARGING AND ITS PROGRESSION IN JAMES RIVER ESTUARY. FLIGHT IN VERY POOR WEATHER, SCATTERED TO BROKEN CLOUDS, EXTREMELY HAZY, AIR TEMP. 18 DEG. C AT 5000 FT., MSL WITH WIND OF 4 KNOTS FROM 270 DEG. (MISSION NO W157, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
70 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1 STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	3 STATIONS			
PHOTOGRAPH	EARTH	BLACK AND WHITE CAMERA FROM AIRCRAFT	PHOTOGRAPHS	70 OBS		13 OBS AT 5000 FT, 24 OBS AT 3000 FT, 33 OBS AT 1500 FT	3 FLIGHT LINES 6 INCH FOCAL LENGTH, ALSO THERMAL SCANNING

000044

BASE LINE DATA OF THE HOG ISLAND, JAMES RIVER AREA

DATA COLLECTED: JUNE 1972 TO JUNE 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, HOG ISLAND

ABSTRACT:

MISSION W144, FLT. 1 WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH AAD-2 AND AN RS-7 THERMAL IR SCANNER ON JUNE 30, 1972, IN COOPERATION WITH THE VA. INSTITUTE OF MARINE SCI. OBJECTIVE - TO OBTAIN BASELINE IMAGERY OF JAMES RIVER IN THE AREA OF THE DISCHARGE FLUME FROM HOG ISLAND NUCLEAR POWER PLANT. (MISSION W144, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
ONE ROLL FILM; 7 FLIGHT LINES; 3 RUNS.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI   804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND   VIRGINIA USA   23337

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			7 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	3	STATIONS			
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	1	OBS			AAD-2 AND RS-7 IR SCANNER, 1 ROLL OF FILM

```
000067
                        HOG ISLAND AND PIG POINT SURFACE CURRENT STUDIES - JAMES RIVER
                            DATA COLLECTED: APRIL 1972 TO APRIL 1972                                        PAGE 01
PROJECTS:                                                                             RECEIVED: JANUARY 01, 1976

GENERAL GEOGRAPHIC AREA:
     U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER

ABSTRACT:
     MISSION W124, FLT. 1, APRIL 27, 1972, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH T-11 AERIAL MAPPING CAMERA AND AN AAD-2
     THERMAL IR SCANNER. OBJECTIVE - TO OBTAIN BASE LINE INFORMATION OF SURFACE CURRENT PATTERNS IN PIG POINT AND HOG ISLAND AREAS
     OF JAMES RIVER. FLIGHT MADE IN CLEAR WEATHER, VISIBILITY 7-8 MILES, AIR TEMP. 0 DEG. C AT 5000 FT., MSL WITH WIND OF 15 KNOTS
     FROM 290 DEG.
     (MISSION NO W124, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
     AIRCRAFT

ARCHIVE MEDIA:
     PHOTOPRINTS
     69 9" X 9" FRAMES; SCANNER FILM.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
     PAUL ALFONSI   804-824-3411
     NATIONAL AERONAUTICS AND SPACE ADM
     CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
     WALLOPS ISLAND  VIRGINIA USA  23337

GRID LOCATOR (LAT):
     730776 730766

      PARAMETER IDENTIFICATION SECTION:

NAME             SPHERE          METHOD             UNITS            DATA AMOUNT              FREQUENCY       HEIGHT/DEPTH    REMARKS
...............  ..............  .................  ...............  ...................      ..............  ..............  ................
POSITION         EARTH           FIXED POINT        MAP LOCATION     2          STATIONS
TIME             EARTH           SAMPLING TIME      YMDHM            5          STATIONS                                      5 FLIGHT LINES
PHOTOGRAPH       EARTH           IR CAMERA FROM     PHOTOGRAPHS      70         OBS
                                  AIRCRAFT                                                                1 ROLL OF       152 MM FOCAL
                                                                                                           FILM AT 2500    LENGTH, AAD-2
                                                                                                           FT, 69 OBS      THERMAL IR
                                                                                                           AT 5000 FT      SCANNER, 3
                                                                                                                           FLIGHT LINES
```

224

007192

BASE LINE DATA FLIGHT, HOG ISLAND/PIG POINT, VIRGINIA
DATA COLLECTED: JULY 1971 TO JULY 1971

RECEIVED: SEPTEMBER 14, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., VIRGINIA, HOG ISLAND, PIG POINT

ABSTRACT:
MISSION W075, FLIGHT02, WAS ACCOMPLISHED ON JULY 16, 1971, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH FOUR HASSELBLAD CAMERAS AND AN AN/AAD-2 THERMAL IR SCANNER. THE OBJECTIVE OF THE FLIGHT WAS TO ACQUIRE BASELINE THERMAL IR SCANNER AND MULTI-SPECTRAL PHOTOGRAPH DATA OVER THE HOG ISLAND/PIG POINT, VIRGINIA AREA.
(MISSION W075, FLIGHT02)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
134 9" X 9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

225

PUBLICATIONS:

CONTACT:
MICHAEL CONGER   804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND   VIRGINIA USA   23337

GRID LOCATOR (LAT):
73077614 73076633

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	8 OBS			
TIME	EARTH	STATION TIME	YMD	8 OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	8 OBS	1 FLIGHT PER LINE	1000, 2000, 4500, 5000 AND 10,000 FEET	40 MM FOCAL LENGTH
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	8 OBS	1 FLIGHT PER LINE	1000, 2000, 4500, 5000 AND 10,000 FEET	40 MM FOCAL LENGTH

007193

BASE LINE DATA FLIGHT HOG ISLAND/PIG POINT, VIRGINIA
DATA COLLECTED: JULY 1971 TO JULY 1971

RECEIVED: SEPTEMBER 14, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., VIRGINIA, HOG ISLAND, PIG POINT

ABSTRACT:

MISSION W075, FLIGHT03, WAS ACCOMPLISHED ON JULY 21, 1971, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH AN AN/AAD-2 THERMAL IR SCANNER AND FOUR HASSELBLAD CAMERAS. THE OBJECTIVE OF THE FLIGHT WAS TO ACQUIRE THERMAL IR SCANNER AND MULTISPECTRAL PHOTOGRAPH DATA OVER HOG ISLAND/PIG POINT, VIRGINIA AREAS OF THE JAMES RIVER. DUE TO AN ELECTRAL MALFUNCTION, NO IR SCANS WERE TAKEN.
(MISSION W075, FLIGHT03)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
178 9" X 9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73077614 73076633

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	178 OBS			
TIME	EARTH	STATION TIME	YMD	178 OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	178 OBS	1 FLIGHT PER LINE	4500 FEET	40 MM FOCAL LENGTH

001157

THERMAL AND WATER POLLUTION STUDIES OF POWER AND INDUSTRIAL PLANTS ON THE JAMES AND YORK RIVERS

DATA COLLECTED: MARCH 1973 TO MARCH 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, GLOUCESTER POINT, HOG ISLAND

ABSTRACT:

MISSION W197, FLT. 2, MARCH 23, 1973, WITH WALLOPS STA. C-54 EQUIPPED WITH AAD-2 THERMAL IR SCANNER, PRT-5 RADIOMETER, 4 HASSELBLAD CAMERAS. MISSION FOR NASA, LANGLEY RES. CTR AND EPA. OBJECTIVE - OBTAIN PHOTOGRAPHIC AND THERMAL INFRARED IMAGERY OF YORK RIVER BELOW U S HIGHWAY 17 BRIDGE AT YORKTOWN AND JAMES RIVER IN THE VICINITY OF THE THERMAL DISCHARGE FROM THE HOG ISLAND NUCLEAR POWER PLANT. CLEAR WEATHER, VISIBILITY 8-10 MILES. AIR TEMP. 10 DEG.-5 DEG. C AT 3000 FT. MSL WIND 30 KNOTS FROM 350 DEG.
(MISSION NO W197, FLT 2)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
ORIGINAL FILM
31 70 MM FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			4 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	4	STATIONS			
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	31	OBS		13 AT 3000 FT, 6 AT 5000 FT, 6 AT 7000 FT, 6 AT 10000 FT	20.1 MM FOCAL LENGTH IR SCANNER
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	31	OBS		13 AT 3000 FT, 6 AT	40 MM FOCAL LENGTH

```
     PARAMETER IDENTIFICATION SECTION:

NAME              SPHERE          METHOD             UNITS             DATA AMOUNT         FREQUENCY       HEIGHT/DEPTH    REMARKS
................. .............. .................. ................. ................... .............. ............... ................
                                                                                                             5000 FT, 6
                                                                                                             AT 7000 FT,
                                                                                                             6 AT 10000
                                                                                                             FT
```

004429

CHLOROPHYLL DETECTION STUDY

DATA COLLECTED: FEBRUARY 1974 TO FEBRUARY 1974

RECEIVED: DECEMBER 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., VIRGINIA, JAMES AND YORK RIVERS

ABSTRACT:

MISSION W264, FLIGHT 1, WAS ACCOMPLISHED ON FEBRUARY 1, 1974. THE OBJECTIVE OF THE FLIGHT WAS TO DETECT THE PRESENCE OF CHLOROPHYLL IN THE JAMES AND YORK RIVERS, VIRGINIA USING COLOR FILM WITH A HAZE FILTER. (MISSION NUMBER W264 FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
54 PHOTOPRINTS

FUNDING:
EPA

INVENTORY:

PUBLICATIONS:

CONTACT:

G. GREW 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	8	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHM	6	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT		6	STATIONS		17,000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

THERMAL AND WATER POLLUTION STUDIES OF POWER AND INDUSTRIAL PLANTS ON THE JAMES AND YORK RIVERS

DATA COLLECTED: MARCH 1973 TO MARCH 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, RAPPAHANNOCK RIVER, HOG ISLAND, YORK RIVER

ABSTRACT:

MISSION W197, FLT. 1, MARCH 23, 1973, UTILIZING THE WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH AN AAD-2 IR SCANNER, A PRT-5 RADIOMETER AND 4 HASSELBLAD CAMERAS. MISSION FLOWN FOR NASA, LANGLEY RESEARCH CTR. AND ENVIRONMENTAL PROTECTION AGENCY. OBJECTIVE - OBTAIN PHOTOGRAPHIC AND THERMAL INFRARED IMAGERY OF POWER PLANT AND INDUSTRIAL INSTALLATION PLUMES ON JAMES AND YORK RIVERS AND SEWAGE OUTFALLS ALONG BANKS OF RAPPAHANNOCK ESTUARY. GOOD WEATHER, VISIBILITY UP TO 8 MILES. AIR TEMP. 5 DEG. C AT 10,500 FT. MSL WIND OF 35 KNOTS FROM 350 DEG.
(MISSION NO W197, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
ORIGINAL FILM
312 70 MM FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

234

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730776 730786 730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	9	STATIONS			9 FLIGHT LINES
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	312	OBS		144 AT 10500 FT, 16 AT 6500 FT, 64 AT 6500 FT, 88 AT 1000 FT	40 MM FOCAL LENGTH
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	312	OBS		144 AT 10500 FT, 16 AT	40 MM FOCAL LENGTH PRT 5

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
						8500 FT, 64 AT 6500 FT, 88 AT 1000 FT	RADIOMETER
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	312 OBS		144 AT 10500 FT, 16 AT 8500 FT, 64 AT 6500 FT, 88 AT 1000 FT	20.1 MM FOCAL LENGTH AAD-2 SCANNER

001273

VIRGINIA INSTITUTE OF MARINE SCIENCES MARSH STUDY
DATA COLLECTED: SEPTEMBER 1972 TO SEPTEMBER 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, YORK RIVER, POROPATANK BAY

ABSTRACT:

MISSION W169, FLT. 3, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS ON SEPT. 11, 1972, IN COOPERATION WITH VA. INSTITUTE OF MARINE SCI. OF THE YORK RIVER AREA NEAR POROPATANK BAY. OBJECTIVE - TO STUDY ESTUARINE INFLOW AND MARSHLAND CHARACTERISTICS ASSOCIATED WITH BRACKISH WATERS. FLIGHT IN CLEAR WEATHER, FEW SCATTERED CLOUDS, AIR TEMP. 14 DEG. C AT 5000 FT., MSL WITH WIND 12 KNOTS FROM S.E.
(MISSION NO W169, FLT 3)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
46 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			4 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	4	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	46	OBS		5000 FT	6 INCH FOCAL LENGTH

004439

YORK RIVER AND LOWER CHESAPEAKE BAY POLLUTION STUDIES
DATA COLLECTED: DECEMBER 1973 TO DECEMBER 1973

PAGE 01
RECEIVED: DECEMBER 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., VIRGINIA, CHESAPEAKE BAY

ABSTRACT:

MISSION W259, FLIGHT 01 WAS ACCOMPLISHED ON 12 DECEMBER 1973. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN AERIAL IMAGERY IN THE DARK GREEN, RED, AND NEAR INFRARED WAVE LENGTHS FOR USE IN STUDYING WATER POLLUTION IN THE YORK RIVER AND CHESAPEAKE BAY BRIDGE TUNNEL AREAS OF VIRGINIA.
(MISSION NUMBER W259 FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
88 PHOTOPRINTS

FUNDING:
NASA

INVENTORY:

PUBLICATIONS:

CONTACT:
G. CREW   804 824 3411
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	2 STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHM	2 STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT		2 STATIONS		17,500 FEET	40 MM FOCAL LENGTH

LYNNHAVEN BAY VEGETATION STUDY

DATA COLLECTED: MAY 1973 TO MAY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LYNNHAVEN ROADS

ABSTRACT:

MISSION W209, FLI. 1, MAY 18, 1973, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS, IN COOPERATION WITH OLD DOMINION UNIV. OBJECTIVE - OBTAIN LARGE SCALE IMAGERY OF LYNNHAVEN BAY AREA FOR USE IN MAKING ANALYSIS OF VEGETATIVE DISTRIBUTION USED IN DELINEATING AERIAL EXTENT OF SPECIES. WEATHER - CLOUDY.
(MISSION NO W209, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
197 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI   804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730765

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			8 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	8	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	197	OBS		3100 FT	152 MM FOCAL LENGTH

```
000186                                   VIRGINIA BEACH HEALTH DEPARTMENT/LYNNHAVEN AREAS                                         PAGE 01
                                     DATA COLLECTED: DECEMBER 1970 TO DECEMBER 1970                            RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
     NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, VIRGINIA, VIRGINIA BEACH, LYNNHAVEN

ABSTRACT:
     MISSION W37, FLT. 1, DEC. 7, 1970, WITH WALLOPS STATION CHARTERED HELICOPTER EQUIPPED WITH 4 T-11 AERIAL CAMERAS IN
     COOPERATION WITH VA. BEACH HEALTH DEPT. OBJECTIVE - TO UTILIZE MULTI-CHANNEL PHOTOGRAPHY TO INVESTIGATE EFFECTS OF SEWAGE
     DISPOSAL IN ESTUARINE SYSTEMS. FLIGHT IN CLEAR WEATHER, SCATTERED CLOUDS, AIR TEMP. 8 DEG. C AT 4000 FT, MSL WITH WIND OF 25
     KNOTS FROM 330 DEG.
     (MISSION NO W37, FLT 1 )

DATA AVAILABILITY:

PLATFORM TYPES:
     AIRCRAFT

ARCHIVE MEDIA:
     PHOTOPRINTS
     152 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
     PAUL ALFONSI   804-824-3411
     NATIONAL AERONAUTICS AND SPACE ADM
     CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
     WALLOPS ISLAND  VIRGINIA USA  23337

GRID LOCATOR (LAT):
     730766

       PARAMETER IDENTIFICATION SECTION:

NAME             SPHERE         METHOD             UNITS             DATA AMOUNT          FREQUENCY      HEIGHT/DEPTH   REMARKS
................ .............. .................. ................. .................... .............. .............. ................
POSITION         EARTH          FIXED POINT        MAP LOCATION      1        STATIONS                                  2 FLIGHT LINES
TIME             EARTH          SAMPLING TIME      YMDHML            2        STATIONS
PHOTOGRAPH       EARTH          COLOR CAMERA       PHOTOGRAPHS       152      OBS                         4000 FT       6 INCH FOCAL
                                 FROM AIRCRAFT                                                                           LENGTH
```

2.35

LAND FILL AND EUTROPHICATION STUDIES

DATA COLLECTED: JANUARY 1973 TO JANUARY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, POTOMAC RIVER

ABSTRACT:

MISSION W185, F1. 1, JAN. 26, 1973, WITH WALLOPS STA. C-54 AIRCRAFT EQUIPPED WITH ONE T-11 AND 4 HASSELBLAD CAMERAS IN COOPERATION WITH NASA, LANGLEY RES. CTR. AND THE EPA. THE OBJECTIVE - INVESTIGATE THE USE OF REMOTE SENSING AS APPLIED TO LAND FILL AND EUTROPHICATION STUDIES IN THE WOODBRIDGE AND POTOMAC RIVER AREAS. CLEAR WEATHER, VISIBILITY 4-10 MILES, AIR TEMP. 9 DEG. C AT 10,000 FT. AND 14 DEG. C AT 4500 FT., MSL WIND OF 20 KNOTS FROM 300 DEG. (MISSION NO W185, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
ORIGINAL FILM
71 9 X 9 INCH FRAMES: 296 70 MM FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730796 730786 730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			10 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	10	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	367	OBS		103 AT 10000 FT, 264 AT 4500 FT	40 MM AND 152 MM FOCAL LENGTH

ANNEX III

Part A

Section 2

Virginia - "Bay"

```
004447
                                        WATER POLLUTION STUDY
                            DATA COLLECTED: JULY 1974 TO JULY 1974                                          PAGE 01
PROJECTS:                                                                           RECEIVED: DECEMBER 01, 1975

GENERAL GEOGRAPHIC AREA:
     NORTH ATLANTIC, COASTAL, U.S., VIRGINIA, CHESAPEAKE BAY

ABSTRACT:
     MISSION W257, FLIGHT 1 WAS ACCOMPLISHED ON 17 JULY, 1974. THE OBJECTIVE OF THE FLIGHT WAS TO STUDY WATER POLLUTION DETECTION
     TECHNIQUES WHICH INCORPORATE ANALYSIS OF MULTISPECTRAL AERIAL PHOTOGRAPHY.
     (MISSION W257 FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
     AIRCRAFT

ARCHIVE MEDIA:
     PHOTOPRINTS
     355 PHOTOPRINTS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
     G. GREW     804 824 3411
     NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
     CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
     WALLOPS ISLAND  VIRGINIA USA  23337

GRID LOCATOR (LAT):
     730765 730775 730776

       PARAMETER IDENTIFICATION SECTION:

NAME             SPHERE          METHOD             UNITS            DATA AMOUNT         FREQUENCY        HEIGHT/DEPTH    REMARKS
...............  ..............  .................  ...............  ..................  ...............  ..............  ................
POSITION         EARTH           FIXED POINT        LATITUDE AND     5         STATIONS
                                                     LONGITUDE
TIME             EARTH           SAMPLING TIME      YMDHM            5         STATIONS
PHOTOGRAPH       EARTH           COLOR CAMERA                        5         STATIONS                    17,500 AND      40 MM AND 152
                                  FROM AIRCRAFT                                                             1,000 FEET     AND FOUR-
                                                                                                                           TENTHS MM
                                                                                                                           FOCAL LENGTHS
```

EFFECTS OF TROPICAL STORM AGNES ON THE CHESAPEAKE BAY
DATA COLLECTED: JULY 1972 TO AUGUST 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA

ABSTRACT:

MISSION W153, FLT. 1, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS ON AUG. 1, 1972, IN COOPERATION WITH VA. INSTITUTE OF MARINE SCI. IN TANGIER ISLAND, VA. REGION OF CHESAPEAKE BAY. OBJECTIVE - TO ACQUIRE AIRBOR N NATURAL COLOR AND BLACK & WHITE IMAGERY TO INVESTIGATE SEDIMENTATION IN CHESAPEAKE BAY AS RESULT OF TROPICAL STORM "AGNES". FLIGHT IN FAIR WEATHER. NO OVERCAST, CONSIDERABLE HAZE, AIR TEMP. 10 DEG. C AT 10000 FT., MSL WITH VARIABLE WIND SPEED. (MISSION NO W153, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
92 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

239

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730776 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS			3 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	3	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	92	OBS		10000 FT	6 INCH FOCAL LENGTH
PHOTOGRAPH	EARTH	BLACK AND WHITE CAMERA FROM AIRCRAFT	PHOTOGRAPHS	92	OBS		10000 FT	6 INCH FOCAL LENGTH.

007216

LOWER JAMES RIVER BASE LINE DATA-VIRGINIA

DATA COLLECTED: FEBRUARY 1972 TO FEBRUARY 1972

RECEIVED: SEPTEMBER 16, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., VIRGINIA, PIG POINT, CRANEY ISLAND

ABSTRACT:

MISSION W107, FLIGHT 02, WAS ACCOMPLISHED ON FEBRUARY 4, 1972, UTILIZING A WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL MAPPING CAMERA. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN BASELINE DATA OF THE TRANSPORTATION OF ESTUARINE SEDIMENTS IN THE VICINITY OF PIG POINT ON THE LOWER JAMES RIVER.
(MISSION W107, FLIGHT 02)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
31 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER   804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73076655

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	31	OBS			
TIME	EARTH	STATION TIME	YMC	31	OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	31	OBS	1 FLIGHT PER LINE	2500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

MOUTH OF THE CHESAPEAKE BAY POLLUTION STUDY

DATA COLLECTED: DECEMBER 1974 TO DECEMBER 1974

RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., VIRGINIA, CHESAPEAKE BAY MOUTH

ABSTRACT:

MISSION W278, FLIGHT 01, WAS ACCOMPLISHED ON DECEMBER 11, 1974, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL MAPPING CAMERA, A THERMAL IR SCANNER, A PRT-5 PRECISION RADIATION THERMOMETER, AND THE MOCS (MULTICHANNEL OCEAN COLOR SENSOR) IN COOPERATION WITH NASA'S LANGLEY RESEARCH CENTER. THE OBJECTIVE OF THE FLIGHT WAS TO STUDY WATER POLLUTION AT THE MOUTH OF THE CHESAPEAKE BAY.
(MISSION W278, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS; STRIP CHARTS
304 9"X9" PRINTS; 1 STRIP CHART

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER   804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730776 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	304	OBS			
TIME	EARTH	SAMPLING TIME	YMDHM	304	OBS	2 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	304	OBS	2 FLIGHTS PER LINE	500, 17,500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	304	OBS	2 FLIGHTS PER LINE	500, 17,500 FEET	50 AND EIGHT-TENTHS MM FOCAL LENGTH

CHLOROPHYLL DETECTION STUDIES

DATA COLLECTED: JANUARY 1974 TO JANUARY 1974

RECEIVED: DECEMBER 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., VIRGINIA, CHESAPEAKE BAY

ABSTRACT:

MISSION W260, FLIGHT 01 WAS ACCOMPLISHED ON 29 JANUARY 1974. THE OBJECTIVE OF THE MISSION WAS TO STUDY CHLOROPHYLL CONCENTRATIONS IN THE MOUTH OF THE CHESAPEAKE BAY AREA BETWEEN CAPE HENRY AND CAPE CHARLES, VIRGINIA. (MISSION NUMBER W260 FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
29 PHOTOPRINTS

FUNDING:
NASA

INVENTORY:

PUBLICATIONS:

CONTACT:

W. BRESSETTE 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	1 STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHM	1 STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT		1 STATIONS		17,500 FEET	40 MM FOCAL LENGTH

007238

SPECTRAL STUDIES OF THE MOUTH OF THE CHESAPEAKE BAY
DATA COLLECTED: MAY 1973 TO MAY 1973

RECEIVED: OCTOBER 19, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., VIRGINIA

ABSTRACT:

MISSION W201, FLIGHT 01, WAS ACCOMPLISHED ON MAY 31, 1973, UTILIZING THE WALLOPS FLIGHT CENTER HELICOPTER EQUIPPED WITH AN I2S"A" AND A T-11 CAMERA SYSTEM IN COOPERATION WITH THE VIRGINIA INSTITUTE OF MARINE SCIENCE. THE OBJECTIVE OF THE FLIGHT WAS TO SUPPORT SPECTROGRAPHIC ANALYSIS STUDIES OF THE MOUTH OF THE CHESAPEAKE BAY BEING PERFORMED ON THE SKYLAB SATELLITE. SPECTRAL READINGS WERE ALSO BEING TAKEN FROM GROUND TRUTH BOATS AT THE TIME OF THE WALLOPS FLIGHT. (MISSION W201, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
316, 94MM PRINTS; 79, 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730775 730766 730776 730765

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	3	STATIONS			
TIME	EARTH	STATION TIME	YMD	3	OBS	5 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	3	OBS	5 FLIGHTS PER LINE	5300 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH 100 MM FOCAL LENGTH

001255

VIMS-TROPICAL STORM AGNES
DATA COLLECTED: AUGUST 1972 TO AUGUST 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY MOUTH, VIRGINIA

ABSTRACT:

MISSION W156, FLT. 1, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS ON AUG. 3, 1972, IN COOPERATION WITH VA. INSTITUTE OF MARINE SCI. IN AREA OF MOUTH OF CHESSPEAKE BAY, OBJECTIVE - TO ACQUIRE REMOTELY SENSED IMAGERY IN BLACK AND WHITE AND FALSE-COLOR TO INVESTIGATE DAMAGE CAUSED BY TROPICAL STORM "AGNES". FLIGHT IN GOOD WEATHER WITH FEW SCATTERED CLOUDS AND VERY HAZY, AIR TEMP. 11 DEG C AT 10,000 FT., MSL WITH WIND OF 15 KNOTS FROM 280 DEG.
(MISSION NO W156, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
94 9" X 9" FRAMES.

FUNDING:

INVENTORY:

2044

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730776 730775 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	4	STATIONS			4 FLIGHT LINES
PHOTOGRAPH	EARTH	BLACK AND WHITE CAMERA FROM AIRCRAFT	PHOTOGRAPHS	94	OBS		10000 FT	6 INCH FOCAL LENGTH

```
006643                          CURRENT STUDY AT THE MOUTH OF THE CHESAPEAKE BAY                                  PAGE 01
                              DATA COLLECTED: SEPTEMBER 1971 TO SEPTEMBER 1971              RECEIVED: AUGUST 30, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
     NORTH ATLANTIC, COASTAL, U.S., VIRGINIA CHESAPEAKE BAY MOUTH

ABSTRACT:
     MISSION W087, FLIGHT01, WAS ACCOMPLISHED ON SEPTEMBER 16, 1971, UTILIZING A WALLOPS FLIGHT CENTER LEASED HELICOPTER EQUIPPED
     WITH FOUR T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH THE VIRGINIA INSTITUTE OF MARINE SCIENCE. THE OBJECTIVE OF THE
     FLIGHT WAS TO TRACE CURRENTS PASSING FROM THE MOUTH OF THE CHESAPEAKE BAY INTO THE REAR SHORE BARRIER ISLAND CURRENTS AND
     DETERMINE THE PRESENCE OF EDDIES AND BACK CURRENTS ALONG THE CAPE HENRY SHORELINE.
     (MISSION W087, FLIGHT01)

DATA AVAILABILITY:

PLATFORM TYPES:
     AIRCRAFT

ARCHIVE MEDIA:
     PHOTOPRINTS
     101 9" X9" PRINTS

FUNDING:
     NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
     MICHAEL CONGER   804 824 3411
     NATIONAL AERONAUTICS AND SPACE ADM
     CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
     WALLOPS ISLAND  VIRGINIA USA  23337

GRID LOCATOR (LAT):
     73077545 73077525 73076555

       PARAMETER IDENTIFICATION SECTION:

NAME             SPHERE         METHOD             UNITS            DATA AMOUNT         FREQUENCY      HEIGHT/DEPTH    REMARKS
................ .............. .................. ................ ................... ............... .............. ................
POSITION         EARTH          FIXED POINT        LONGITUDE AND    101       OBS
                                                    LATITUDE
TIME             EARTH          STATION TIME       YMD              101       OBS       4 FLIGHTS PER
                                                                                          LINE
PHOTOGRAPH       EARTH          COLOR CAMERA       PRINTS           101       OBS       4 FLIGHTS PER  500, 1000,      152 AND FOUR-
                                 FROM AIRCRAFT                                            LINE           1100, 5000      TENTHS MM
                                                                                                         AND 5500        FOCAL LENGTH
                                                                                                         FEET
```

ANNEX III

Part A

Section 2

Virginia - "Oceanside"

007243

COASTAL CURRENT STUDY ALONG THE VIRGINIA COAST
DATA COLLECTED: APRIL 1972 TO APRIL 1972

RECEIVED: OCTOBER 19, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., VIRGINIA

ABSTRACT:

MISSION W121, FLIGHT 01, WAS ACCOMPLISHED ON APRIL 20, 1972, UTILIZING A WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS, IN COOPERATION WITH THE VIRGINIA INSTITUTE OF MARINE SCIENCE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN AERIAL PHOTOGRAPHY OF DYE DISPERSION ALONG THE LOWER COAST OF THE DELMARVA PENINSULA FROM THE CAPE CHARLES LIGHTHOUSE ON SMITH ISLAND PAST THE MOUTH OF THE CHESAPEAKE BAY TO JUST SOUTH OF THE CITY OF VIRGINIA BEACH ON THE LOWER VIRGINIA COAST FOR USE IN A COASTAL CURRENT STUDY.
(MISSION W121, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
491, 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

247

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730776 730775 730765 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	15	STATIONS			
TIME	EARTH	STATION TIME	YMD	15	OBS	3 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	15	OBS	3 FLIGHTS PER LINE	6000, 8000, 8500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

VIRGINIA AND NORTH CAROLINIA OUTER BANKS STORM DAMAGE
DATA COLLECTED: FEBRUARY 1973 TO FEBRUARY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:
LANDSAT

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, NORTH CAROLINA

ABSTRACT:

MISSION W187, F11. 1, FEB. 13, 1973, WITH WALLOPS STA. C-54 AIRCRAFT EQUIPPED WITH 2 T-11 AERIAL MAPPING CAMERAS AND A K-17 MOUNTED IN A 45 DEG. ATTITUDE FOR OBLIQUE COVERAGE. THE MISSION IN COOPERATION WITH COASTAL RES. CTR. OF CORPS OF ENGIN. OBJECTIVE - TO OBTAIN LARGE SCALE VERTICAL AND OBLIQUE IMAGERY OF STORM DAMAGE INCURRED BY A WINTER STORM STRIKING ACROSS COAST BETWEEN NORFOLK AND NORTH/SOUTH CAROLINA BORDER. IMAGERY RECORDED EXTENSIVE BEACH EROSION WHICH RESULTED IN SERIOUS PROPERTY DAMAGE TO PIERS, HOUSES AND MOTELS. CLEAR WEATHER, GOOD VISIBILITY, AIR TEMP. 5 DEG. C FROM 6500 FT., MSL WIND OF 15 KNOTS FROM 250 DEG.
(MISSION NO W187, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
ORIGINAL FILM
605 9 X 9 INCH FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730765 730745 730746 730736 730737 730727 730728

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	7	STATIONS			7 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	605	OBS		6500 FT	152 MM AND 306 MM FOCAL LENGTH

MICROWAVE OCEAN WAVE STUDY-VIRGINIA

DATA COLLECTED: MAY 1974 TO MAY 1974

RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., VIRGINIA

ABSTRACT:

MISSION W275, FLIGHT 01, WAS ACCOMPLISHED ON MAY 16, 1974, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL MAPPING CAMERA AND A MICROWAVE SENSOR IN COOPERATION WITH THE NAVAL RESEARCH LABORATORY. THE OBJECTIVE OF THE FLIGHT WAS TO STUDY OCEAN WAVE PATTERNS.
(MISSION W275, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
34 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73076555

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	34 OBS			
TIME	EARTH	STATION TIME	YMD	34 OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	34 OBS	1 FLIGHT PER LINE	500 AND 5,000 FEET	THE CAMERA FOCAL LENGTH WAS 152 AND FOUR-TENTHS MM THERE WERE NO FLIOR DATA IDENTIFICATIONS FOR THE

```
008676
                                    MICROWAVE OCEAN WAVE STUDY-VIRGINIA  (CONT.)
      PARAMETER IDENTIFICATION SECTION:                                                        PAGE 02
NAME            SPHERE         METHOD           UNITS           DATA AMOUNT        FREQUENCY      HEIGHT/DEPTH   REMARKS
............... .............. ................ ............... .................. .............. .............. ...............

                                                                                                                  MICROWAVE
                                                                                                                  PORTION OF
                                                                                                                  THIS MISSION
```

008660

VIRGINIA OUTTER BANK WAVE STUDY
DATA COLLECTED: NOVEMBER 1974 TO NOVEMBER 1974

RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., VIRGINIA

ABSTRACT:

MISSION W268, FLIGHT 01, WAS ACCOMPLISHED ON NOVEMBER 9, 1974 UTILIZING THE WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS, IN COOPERATION WITH NASA'S LANGLEY RESEARCH CENTER. THE OBJECTIVE OF THE FLIGHT WAS TO STUDY WAVE PATTERNS ALONG THE VIRGINIA OUTER BANKS ISLANDS FROM TOM'S CAVE TO LITTLE MACHIPONGO INLET. (MISSION W268, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
120 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73077552 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	120	OBS			
TIME	EARTH	SAMPLING TIME	YMD	120	OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	120	OBS	1 FLIGHT PER LINE	1,500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

007214 TERRAIN STUDY OF TOM'S COVE, VIRGINIA PAGE 01
DATA COLLECTED: FEBRUARY 1972 TO FEBRUARY 1972 RECEIVED: SEPTEMBER 16, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., VIRGINIA, TOM'S COVE

ABSTRACT:
MISSION W106, FLIGHT 04, WAS ACCOMPLISHED ON FEBRUARY 1, 1972, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL MAPPING CAMERAS IN COOPERATION WITH THE CHINCOTEAGUE NATIONAL WILDLIFE RESERVE OF THE BUREAU OF SPORT FISHERIES AND WILDLIFE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN LARGE SCALE IMAGERY OF THE LAND SURROUNDING TOM'S COVE FOR USE IN STUDYING EROSION AND DEPOSITIONAL FEATURES OF THE TERRAIN IN TOM'S COVE.
(MISSION W106, FLIGHT 04)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
20 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73077555

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	20	OBS			
TIME	EARTH	SAMPLING TIME	YMDHM	20	OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	20	OBS	1 FLIGHT PER LINE	5000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

000066

CHINCOTEAGUE NATIONAL WILDLIFE REFUGE-ASSATEAGUE ISLAND
DATA COLLECTED: APRIL 1972 TO APRIL 1972

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, ASSATEAGUE ISLAND, TOM'S COVE

ABSTRACT:

MISSION W123, FLT. 2, APRIL 24, 1972, WITH WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH TWO T-11 AERIAL CAMERAS IN COOPERATION WITH CHINCOTEAGUE NATIONAL WILDLIFE REFUGE ON THE "TOM'S COVE" SECTION OF ASSATEAGUE ISLAND, VA. OBJECTIVE - TO OBTAIN NATURAL AND FALSE-COLOR REMOTELY SENSED IMAGERY TO ASSESS THE ENVIRONMENTAL IMPACT OF A NEWLY DEVELOPED NATURE TRAIL. FLIGHT MADE IN CLEAR WEATHER, SOME HAZE, VISIBILITY 4-5 MILES, AIR TEMP. 18 DEG. C AT 3000 FT., MSL WITH WIND OF 6 KNOTS FROM 295 DEG. (MISSION NO W123, FLT 2)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
12 9" X 9" FRAMES.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			1 FLIGHT LINE
TIME	EARTH	SAMPLING TIME	YMDHML	1	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	12	OBS		3000 FT	6 INCH FOCAL LENGTH

000184

CHINCOTEAGUE NATIONAL WILDLIFE REFUGE BASE LINE STUDY

DATA COLLECTED: OCTOBER 1970 TO OCTOBER 1970

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, VIRGINIA, CHINCOTEAGUE

ABSTRACT:

MISSION W029, FLT. 3, OCTOBER 19, 1970, WALLOPS STATION CHARTERED BELL 205 HELICOPTER EQUIPPED WITH A POD OF T-11 AERIAL MAPPING CAMERAS. OBJECTIVE - TO OBTAIN REMOTE SENSOR BASE LINE DATA OF ACTIVE WILDLIFE AREAS IN CHINCOTEAGUE - TOM'S COVE - ASSETEAGUE AREA. FLIGHT MADE FOR THE CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE. FLIGHT IN CLEAR WEATHER, AIR TEMP. +8 DEG. -C AT 1000 FT., MSL WITH WIND OF 20 KNOTS FROM 280 DEG. (MISSION NO W029, FLT 3)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
256 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI   804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND   VIRGINIA USA   23337

GRID LOCATOR (LAT):
730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	6	STATIONS			6 FLIGHT LINES
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	256	OBS		54 OBS AT 5000 FT, 202 OBS AT 1000 FT	6 INCH FOCAL LENGTH

007217

ASSATEAGUE ISLAND STUDY-MARYLAND
DATA COLLECTED: FEBRUARY 1972 TO FEBRUARY 1972

RECEIVED: SEPTEMBER 16, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., VIRGINIA, MARYLAND, ASSATEAGUE ISLAND

ABSTRACT:

MISSION W107, FLIGHT 03, WAS ACCOMPLISHED ON FEBRUARY 4, 1972, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL MAPPING CAMERA IN COOPERATION WITH THE GEOLOGY DEPARTMENT OF THE UNIVERSITY OF VIRGINIA FOR THE U.S. PARK SERVICE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN WINTER IMAGERY OF ASSATEAGUE ISLAND FOR DETERMINING LITTORAL EROSIONAL CHANGES BROUGHT ABOUT BY LATE FALL AND EARLY WINTER STORMS. (MISSION W107, FLIGHT 03)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
67 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73077554 73078541

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	67 OBS			
TIME	EARTH	STATION TIME	YMD	67 OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINTS	67 OBS	1 FLIGHT PER LINE	5000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

001159

BASE LINE DATA OF THE WALLOPS ISLAND LITTORAL REGIME
DATA COLLECTED: APRIL 1973 TO APRIL 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, WALLOPS ISLAND

ABSTRACT:

MISSION W198, FLIGHT 2, APRIL 6, 1973, UTILIZING THE WALLOPS STATION C-54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL MAPPING CAMERA AND A THERMAL IR SCANNER FOR THE CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN UPDATED BASE LINE INFORMATION OF BEACH CONDITIONS ON WALLOPS ISLAND. CLEAR WEATHER, VISIBILITY FROM 10-20 MILES. AIR TEMPERATURE WAS 8 DEG. C AT 5000 FT. MSL, WIND OF 20 KNOTS FROM 280 DEG. (MISSION NO W198, FLT 2)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
ORIGINAL FILM
18 9 X 9 INCH FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	2	STATIONS			2 FLIGHT LINES
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	18	OBS		5000 FT	20.1 MM FOCAL LENGTH IR SCANNER
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	18	OBS		5000 FT	152 MM FOCAL LENGTH

000185

WALLOPS ISLAND LITTORAL REGIME BASE LINE STUDY

DATA COLLECTED: OCTOBER 1970 TO OCTOBER 1970

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, VIRGINIA WALLOPS ISLAND

ABSTRACT:

MISSION W029, FLT. 4, OCTOBER 19, 1970, WITH WALLOPS STATION CHARTERED BELL 205 HELICOPTER EQUIPPED WITH A POD OF 4 T-11 AERIAL MAPPING CAMERAS. OBJECTIVE - TO OBTAIN BASE LINE REMOTE SENSOR DATA FOR THE CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE OF THE STATUS OF THE LITTORAL REGIME OF WALLOPS ISLAND. FLIGHT IN CLEAR WEATHER, MODERATE HAZE, AIR TEMP. -4 DEG. C AT 10,000 FT., MSL WITH WIND OF 20 KNOTS FROM 280 DEG.
(MISSION NO W029, FLT 4)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
28 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			1 FLIGHT LINE
TIME	EARTH	SAMPLING TIME	YMDHML	1	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	28	OBS		10000 FT	6 INCH FOCAL LENGTH

ANNEX III

Part A

Section 3

New Files

Section 3 contains 17 new files identified in interviews with Bay researchers. These files are arranged by the same criterion as those in Section 1. The first ten files contain surveys of general submerged aquatic vegetation as well as surveys and studies of specific genera. The next five files range from three general flora surveys to infauna and epifauna of eelgrass, and ground photographs of wetlands areas. The last two files cover Back Bay National Wildlife Refuge and Currituck Sound, North Carolina.

ANNEX III

Part A

Section 3

"1"

Specific studies of submerged aquatic vegetation.

DATA COLLECTED:

PROJECTS: SENT: PAGE: 01

CHESAPEAKE BAY VEGETATION SURVEY

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY

ABSTRACT:

THIS IS AN ONGOING PROJECT THAT BEGAN IN JULY 1971 TO RECORD THE DISTRIBUTION AND ABUNDANCE OF SUBMERGED AQUATIC VEGETATION IN THE UPPER CHESAPEAKE BAY. ALL MARYLAND TRIBUTARIES INCLUDING THE POTOMAC RIVER ARE SURVEYED BETWEEN JULY AND SEPTEMBER OF EACH YEAR. EACH STATION IS MONITORED ONCE DURING THESE MONTHS. THE RAW DATA IS STORED ON MAGNETIC TAPE BUT OUTPUT FROM SUMMARIZATION PROGRAMS ARE AVAILABLE FOR EACH YEAR. THESE OUTPUTS SUMMARIZE THE DATA BY RIVER SYSTEM.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

ROBERT MUNRO
PATUXENT WILDLIFE RESEARCH CENTER
U.S. FISH AND WILDLIFE SERVICE
LAUREL, MARYLAND 20811

GRID LOCATOR:

PAGE: 01

DATA COLLECTED:

SENT:

PROJECTS:
INVESTIGATION ON GROWTH DYNAMICS AND CHARACTERISTICS OF EELGRASS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, VIRGINIA, MOBJACK BAY, HUNGARS CREEK

ABSTRACT:
FOUR REPLICATE SAMPLES EACH ARE TAKEN EVERY MONTH AT A STATION IN MOBJACK BAY AND ONE IN HUNGARS CREEK, VIRGINIA. THE PROJECT BEGAN IN FEBRUARY 1976. THE OBJECTIVE OF THIS ONGOING MONITORING PROGRAM IS TO DETERMINE THE GROWTH DYNAMICS AND CHARACTERISTICS OF EELGRASS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. ROBERT J. ORTH
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA 23062

GRID LOCATOR:

DATA COLLECTED:

PAGE: 01

SENT:

PROJECTS:
REMOTE SENSING OF SUBMERGED AQUATIC VEGETATION

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, VIRGINIA

ABSTRACT:

MISSIONS ARE FLOWN BY VIRGINIA INSTITUTE OF MARINE SCIENCE PERSONNEL USING AN INSTITUTE LIGHT AIRCRAFT EQUIPPED WITH A MOUNTED HASSELBLAD 500 EL/M CAMERA (50 MM F/4 DISTAGON LENS) AT ALTITUDES VARYING FROM 5000 TO 8000 FEET. THE PROJECT BEGAN IN APRIL 1974. THE OBJECTIVE OF THIS ONGOING MONITORING PROGRAM IS TO STUDY THE DISTRIBUTION OF SUBMERGED AQUATIC VEGETATION IN THE LOWER CHESAPEAKE BAY.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. ROBERT J. ORTH
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA 23062

GRID LOCATOR:

DATA COLLECTED: **SENT:** **PAGE:** 01

PROJECTS:
REMOTE SENSING OF VIRGINIA'S SHORELINE

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, VIRGINIA

ABSTRACT:

MISSIONS ARE FLOWN BY VIRGINIA INSTITUTE OF MARINE SCIENCE PERSONNEL USING LOW ALTITUDE, OBLIQUE ANGLE PHOTOGRAPHY. OVER 14,000 COLOR SLIDES SERVE AS A DATA SOURCE FOR SHORELINE SITUATION REPORTS. THE AREA COVERED IS ALL OF VIRGINIA'S SHORELINE, BOTH OCEANSIDE AND CHESAPEAKE BAY. THE STUDY BEGAN IN 1972 AND IS STILL ACTIVE. EACH AREA IS PHOTOGRAPHED ONLY ONCE.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. ROBERT BYRNE
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA 23062

GRID LOCATOR:

DATA COLLECTED: SENT: PAGE: 01

PROJECTS:
EURASIAN WATER MILFOIL SURVEY OF CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:
SURVEYS WERE DONE FROM 1961 TO 1968 BY PERSONNEL OF CHESAPEAKE BIOLOGICAL LABORATORY. THE 1961 SURVEY WAS COMPREHENSIVE, BUT FROM 1962 TO 1968 SURVEYS OF DIFFERENT RIVER SYSTEMS WERE TAKEN SPORADICALLY WHENEVER TIME PERMITTED AND PERSONNEL WERE AVAILABLE. AREAS COVERED INCLUDE FROM ST. PATRICKS CREEK ON THE POTOMAC RIVER, UP THE WESTERN SHORE, ACROSS THE HEAD OF THE BAY AND ALONG THE EASTERN SHORE TO AND INCLUDING THE SASSAFRAS RIVER. INCLUDED IN SOME OF THE DATA ARE WATER TEMPERATURE, SECCHI DISC DEPTHS, SALINITY, TIDAL STAGE, WIND DIRECTION AND SPEED, PH, DISSOLVED OXYGEN, DISSOLVED CARBON DIOXIDE GAS, BOTTOM TYPE, VEGETATION SPECIES PRESENT AND THEIR RELATIVE ABUNDANCE. DISTRIBUTION MAPS ARE PRESENT FOR EACH AREA WHEN EURASIAN WATER MILFOIL WAS PRESENT. ALL DATA IS ON FILE BY RIVER SYSTEM.

~~DATA AVAILABILITY:~~

~~PLATFORM TYPES:~~

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS, MARYLAND 20688

GRID LOCATOR:

DATA COLLECTED:

PAGE: 01

SENT:

PROJECTS:
THE ECOLOGY AND DISEASE OF EURASIAN WATER MILFOIL IN THE CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, RHODE RIVER, MIDDLE RIVER, BACK RIVER

ABSTRACT:
THIS INVESTIGATION BEGAN IN 1966 IN THE RHODE RIVER, MIDDLE RIVER AND BACK RIVER AND CONTINUED THROUGH 1969. THE WORK INVOLVED DISTRIBUTIONAL SURVEYS OF EURASIAN WATER MILFOIL ABUNDANCE IN RELATION TO NATIVE AQUATIC PLANTS, INVESTIGATION OF EURASIAN WATER MILFOIL DISEASE AND STUDIES ON WATER QUALITY CONDITIONS RELATIVE TO MILFOIL GROWTH.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN
JOHNS HOPKINS UNIVERSITY
BALTIMORE, MARYLAND 21205

GRID LOCATOR:

DATA COLLECTED: PAGE: 01

SENT:

PROJECTS:
MECHANICAL CONTROL OF EURASIAN WATER MILFOIL IN MARYLAND WITH AND WITHOUT 2,4-D APPLICATIONS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, POTOMAC RIVER, GUNPOWDER RIVER

ABSTRACT:
IN 1961 THROUGH 1964, THE EFFECTIVENESS OF UNDERWATER MOWING OF MILFOIL USING A MECHANICAL MOWER WITH AND WITHOUT SUBSEQUENT APPLICATION OF 2,4-D WAS INVESTIGATED IN MEDIUM AND NEAR MAXIMUM SALINITY RANGES FOR MILFOIL. IN 1961, SEVEN PLOTS OF MILFOIL WERE STUDIED IN HERRING CREEK, A TRIBUTARY OF THE LOWER POTOMAC RIVER. IN 1962, 19 PLOTS WERE STUDIED IN DUNDEE CREEK, A TRIBUTARY OF THE GUNPOWDER RIVER, AND IN 1963 AND 1964, 12 PLOTS WERE ESTABLISHED IN THE SAME LOCALITY.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
CHARLES RAWLS
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS, MARYLAND 20688

GRID LOCATOR:

DATA COLLECTED:

PAGE: 01

PROJECTS:
TEMPERATURE AND ROOTED AQUATIC PLANTS

SENT:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:

IN RELATION TO THE DISAPPEARANCE OF A *RUPPIA MARITIMA* POPULATION NEAR THE EFFLUENT OF AN ELECTRICAL GENERATING STATION ON THE PATUXENT RIVER, MARYLAND, A BROAD STUDY OF TEMPERATURE EFFECTS ON RESPIRATION AND PHOTOSYNTHESIS OF AQUATIC PLANTS WAS MADE FROM 1963 TO 1964. THE SPECIFIC AREA STUDIED ON THE PATUXENT WAS FROM TEAGUE POINT TO HUNTING CREEK. A GILSON DIFFERENTIAL RESPIROMETER WAS USED TO INVESTIGATE RESPIRATORY VARIATION IN LEAVES OF *POTAMOGETON PERFOLIATUS* AT 25, 30, 35, 40, AND 45°C. THIS SPECIES GROWS WITH *RUPPIA MARITIMA* AND PLANT MATERIAL WAS READILY AVAILABLE. PLANTS GROWING IN HEATED AND NON-HEATED WATER WERE COMPARED.

~~DATA AVAILABILITY:~~

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. RICHARD R. ANDERSON
AMERICAN UNIVERSITY
WASHINGTON, D. C. 20016

GRID LOCATOR:

DATA COLLECTED:

PAGE: 01

SENT:

PROJECTS:

MINERAL COMPOSITION OF EURASIAN WATER MILFOIL, *MYRIOPHYLLUM SPICATUM*

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:

THE MINERAL COMPOSITION OF EURASIAN WATER MILFOIL, *MYRIOPHYLLUM SPICATUM* L., IN MARYLAND WAS INVESTIGATED TO DETERMINE THE FEASIBILITY OF ITS USE AS A SUPPLEMENT OR SUBSTITUTE FOR COMMERCIAL FERTILIZER. FROM JUNE 1962 TO JANUARY 1963, SAMPLES WERE COLLECTED AND ANALYZED FROM ONE FRESHWATER AND FOUR ESTUARINE HABITATS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DR. RICHARD R. ANDERSON
AMERICAN UNIVERSITY
WASHINGTON, D. C. 20016

GRID LOCATOR:

DATA COLLECTED:

SENT:

PAGE: 01

PROJECTS:
THE MINERAL CONTENT OF *MYRIOPHYLLUM SPICATUM* L. IN RELATION TO ITS AQUATIC ENVIRONMENT

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:
THE MINERAL COMPOSITION OF *MYRIOPHYLLUM SPICATUM* L. AND ITS AQUATIC ENVIRONMENT WERE INVESTIGATED TO DETERMINE THE RELATIONSHIP BETWEEN IONIC CONTENTS IN THE PLANT AND IN THE WATER. SYSTEMATIC SAMPLINGS WERE MADE IN TWIN PONDS NEAR BELTSVILLE, MARYLAND, ON THREE SITES IN THE WICOMICO RIVER IN TALL TIMBERS COVE, AN INLET OF THE POTOMAC RIVER FROM JUNE TO OCTOBER 1962.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. RICHARD R. ANDERSON
AMERICAN UNIVERSITY
WASHINGTON, D. C. 20016

GRID LOCATOR:

ANNEX III

Part A

Section 3

"2"

General vegetation studies which include submerged aquatic vegetation.

DATA COLLECTED:

SENT:

PAGE: 01

PROJECTS:
DISTRIBUTION OF SUBMERGED AQUATIC VEGETATION IN TIDAL MIDDLESEX COUNTY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, VIRGINIA, RAPPAHANNOCK RIVER, PIANKATANK RIVER

ABSTRACT:

OBSERVATIONS OF SUBMERGED AQUATIC VEGETATION WERE RECORDED AS ADDITIONAL INFORMATION DURING A WETLANDS SURVEY CONDUCTED BY VIRGINIA INSTITUTE OF MARINE SCIENCE PERSONNEL DURING THE PERIOD OF MARCH THROUGH JULY 1977. MOST OF THE OBSERVATIONS WERE MADE IN VERY TURBID WATERS WHEN THE PLANTS FOULED THE BOAT MOTOR'S PROPELLER. THE INFORMATION IS CONTAINED IN THE COMMENTS SECTION OF THE TIDAL MARSH INVENTORY LISTED IN THE PUBLICATION BLOCK. MORE INVENTORIES OF VIRGINIA TIDAL AREAS WILL BE CONDUCTED IN SUMMER 1978 AND WILL RECORD OBSERVATIONS OF SUBMERGED AQUATIC VEGETATION.

~~DATA AVAILABILITY:~~

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA 23062

GRID LOCATOR:

ANNEX III

Part A

Section 3

"3"

Detailed observations of submerged aquatic vegetation
found during faunal and bottom studies.

DATA COLLECTED:

SENT:

PAGE: 01

PROJECTS:
SURVEY OF FLORA OF VIRGINIA BEACH, ACCOMACK AND NORTHAMPTON COUNTIES

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., VIRGINIA, COASTAL, VIRGINIA BEACH, ACCOMACK COUNTY, NORTHAMPTON COUNTY

ABSTRACT:

THIS SURVEY WAS MADE IN PREPARATION OF THE ATLAS OF VIRGINIA FLORA LISTED IN THE PUBLICATION BLOCK. THE SURVEY WAS CONDUCTED CHIEFLY IN WETLANDS AREAS DURING THE SUMMERS OF 1971, 1974, 1975. THE SUBMERGED AQUATIC VEGETATION OF ACCOMACK AND NORTHAMPTON COUNTIES WAS FOUND IN THE PONDS AND CULVERTS. NO BOATS WERE USED.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. E. SPENCER WISE
CHRISTOPHER NEWPORT COLLEGE
NEWPORT NEWS, VIRGINIA 23606

GRID LOCATOR:

DATA COLLECTED:

PROJECTS:
A FLORA OF WORCESTER COUNTY, MARYLAND

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, WORCESTER COUNTY

SENT:

PAGE: 01

ABSTRACT:

THIS STUDY IS THE PIONEER WORK FOR DESCRIBING THE FLORA OF WORCESTER COUNTY, MARYLAND. IT WAS CONDUCTED FROM FALL 1930 TO FALL 1932.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN
CATHOLIC UNIVERSITY
WASHINGTON, D. C. 20064

GRID LOCATOR:

ANNEX III

Part A

Section 3

"4"

General observations of submerged aquatic vegetation found during faunal studies.

DATA COLLECTED:

SENT: PAGE: 01

PROJECTS:
ROLE OF DISTURBANCE IN AN EELGRASS COMMUNITY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, VIRGINIA, YORK RIVER, SANDY POINT

ABSTRACT:

SIX STATIONS IN AN EELGRASS BED AT SANDY POINT ON THE YORK RIVER WERE SAMPLED IN JULY 1972 FOR BIOMASS OF BENTHIC PLANTS, SPECIES DETERMINATION OF BENTHIC ANIMALS AND SEDIMENT SIZE ANALYSIS. TWO YEARS LATER THE SAME EELGRASS BED HAD BEEN DEVASTATED BY PREDATOR FEEDING BY THE COWNOSE RAY LEAVING ONLY PATCHES OF EELGRASS. SEVENTEEN DIFFERENT SIZE PATCHES WERE SAMPLED AGAIN FOR SPECIES DETERMINATION. VARIOUS FORMS OF STRESS WERE ADMINISTERED TO THE EELGRASS INFAUNA AND EPIFAUNA AND RESULTS WERE OBSERVED.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. ROBERT J. ORTH
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA 23062

GRID LOCATOR:

DATA COLLECTED: SENT: PAGE: 01

PROJECTS:
PHOTOGRAPHS AND SLIDES OF THE CHESAPEAKE BAY AND ITS TRIBUTARIES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY

ABSTRACT:
PHOTOGRAPHS HAVE BEEN TAKEN FROM APPROXIMATELY 1924 TO 1978 AS A HOBBY THERE ARE 20,000 TO 30,000 BLACK AND WHITE NEGATIVES AND KODACHROME SLIDES REPRESENTING NUMEROUS SUBJECTS AND COVERING ALL OF NORTH AMERICA. FRANCIS UHLER'S MAIN INTERESTS HOWEVER HAVE BEEN WATERFOWL FOOD HABITS AND EVALUATION OF WATERFOWL SITES. APPROXIMATELY 500-1000 PHOTOGRAPHS RELATE TO THE CHESAPEAKE BAY. THE PHOTOGRAPHS ARE ARRANGED BY DATE AND ARE INDEXED BY SUBJECT MATTER FROM 1924-1934. FROM 1934 TO PRESENT THEY ARE NOT INDEXED AND REMAIN IN THEIR ORIGINAL STORAGE BOXES BY DATE. NUMEROUS NOTEBOOKS OF FIELD OBSERVATIONS ACCOMPANY THE SLIDES FROM 1924 TO PRESENT.

~~DATA AVAILABILITY:~~

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
FRANCIS UHLER
P. O. BOX 65
BOWIE, MARYLAND 20715

GRID LOCATOR:

ANNEX III

Part A

Section 3

"6"
Areas near the Chesapeake Bay including
oceanside Maryland and Virginia, Delaware,
and the northern coast of North Carolina.

DATA COLLECTED:

SENT: PAGE: 01

PROJECTS:
AN INVESTIGATION OF CERTAIN WATERFOWL PLANTS AND A BOTANICAL SURVEY OF BACK BAY NATIONAL WILDLIFE REFUGE, VIRGINIA BEACH, VIRGINIA

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, VIRGINIA, BACK BAY NATIONAL WILDLIFE REFUGE

ABSTRACT:

THE PURPOSE OF THIS STUDY WAS TO EXAMINE WATERFOWL FOOD, DESCRIBE THE BOTANY OF THE AREA AND EXAMINE THE PHYSICAL FACTORS OF THE BAY'S WATERS. 330 SPECIES, 198 GENERA AND 76 FAMILIES OF PLANTS WERE IDENTIFIED AT 15 STATIONS IN THE BAY OVER A PERIOD OF 27 WEEKS FROM 1 MAY TO 15 DECEMBER 1947.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN
VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY
BLACKSBURG, VIRGINIA 24061

GRID LOCATOR:

DATA COLLECTED:

PROJECTS:
DISTRIBUTION OF SUBMERGED HYDROPHYTES IN CURRITUCK SOUND

SENT:

PAGE: 01

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, NORTH CAROLINA, CURRITUCK SOUND

ABSTRACT:
ROOTED SUBMERGENT FLORA OF CURRITUCK SOUND, NORTH CAROLINA DESCRIBED WITH RESPECT TO SALINITY, SUBSTRATE TEXTURE, DEPTH, PH AND TURBIDITY. TEN TRANSECTS WERE MADE PERPENDICULAR TO SHORELINE ACROSS SOUND TO OPPOSITE SHORELINE - MAY TO AUGUST 1975.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN
OLD DOMINION UNIVERSITY
NORFOLK, VIRGINIA 23508

GRID LOCATOR:

ANNEX III

Part B

Index to the Data Files of Chesapeake Bay -
Listed by Key Word
Submerged Aquatic Vegetation

This index is a listing of the data files of Sections 1 and 2 by key word. The data files initiated after January 1, 1973 are italicized. Most of the files are referenced by more than one key word, and more than half (16) of the 28 key words failed to yield relevant data files.

ANNEX III

Part B

Index to the Data Files of Chesapeake Bay-
Listed by Key Word
Submerged Aquatic Vegetation

beta activity in benthic plants (bottom)
none.

biological condition of benthic plants (bottom)
none.

biomass of benthic plants (bottom)
6, 8, *51*, 60, *80*.

canopy cover of benthic plants (bottom)
none.

community structure analysis (bottom)
8, 11, 31.

community structure analysis (water)
54.

count of benthic plants (bottom)
6, 8, 13, *15*, 17, 19, 21, 23, 25, 29, 33, 57, 60, 62, *66*, 69, 76, *78*, *80*, 81.

developmental stage of benthic plants (bottom)
none.

diversity index (bottom)
none.

flowering (bottom)
none.

gamma activity in benthic plants (bottom)
none.

growth studies of benthic plants (bottom)
75.

height of benthic plants (bottom)
none.

length of benthic plants (bottom)
60.

meristic measurements of benthic plants (bottom)
none.

morphometric measurement of benthic plants (bottom)
none.

mortality of benthic plants (bottom)
none.

photograph (bottom)
none.

photograph (earth) (from aircraft)
83, *85*, 86, 87, 89, 90, 91, *92*, *93*, 94, *95*, *96*, 97, *98*, *99*, *100*, *101*,
102, *103*, *104*, *105*, *106*, *107*, 108, 109, *110*, *111*, *112*, *113*, *114*, *115*,
116, 117, 118, *119*, *120*, *121*, *122*, 123, 124, 125, 126, 127, 128, *129*,
130, *131*, *132*, *133*, 134, 135, 136, 138, 139, 140, 141, 142, 143, 144,
145, *146*, *147*, 148, 149, 150, 151, 152, 153, 154, 155, 157, 158, 159,
160, *161*, *162*, *163*, 164, *165*, *166*, *167*, *168*, 169, 170, *171*, *172*, *173*,
174, *175*, 176, *177*, *178*, *179*, *180*, *181*, *182*, 183, 184, 185, 187, *188*,
189, 190, 191, *192*, 193, *194*, 195, 196, *198*, 199, 200, 201, 202, 203,
204, *205*, *207*, *208*, 210, *211*, *212*, 213, *214*, *215*, 216, 217, *218*, *219*,
220, 221, 222, 223, *224*, *225*, *227*, 228, 229, 230, 231, *232*, 233.

sample of benthic plants (bottom)
none.

sex determination of benthic plants (bottom)
none.

sightings of benthic plants (bottom)
none.

species determination of benthic plants (bottom)
6, 8, 11, 13, *15*, 17, 29, 33, 36, 49, *56*, 57, 60, 62, 64, 73, 76, *78*,
80, 81.

taxonomic list of benthic plants (bottom)
27, 45, 47.

volume determination of benthic plants (bottom)
64.

volume/weight ratios of benthic plants (bottom)
none.

weight of benthic plants (bottom)
38, 41, 60, *66*.

yield of benthic plants (bottom)
75.

ANNEX IV

Monitoring Programs of the Chesapeake Bay

Submerged Aquatic Vegetation

The 12 monitoring programs identified for submerged aquatic vegetation in the Chesapeake Bay form two categories, as follows:

Continuous monitoring programs presently active in the Chesapeake Bay - 11 files.

Continuous monitoring programs initiated after January 1967 and have operated five (5) years or longer, but are presently not operational - 1 file.

No continuous monitoring programs that were initiated prior to January, 1967 and have operated ten (10) years or longer, but are presently not operational, were found.

DATA COLLECTED: JANUARY 1972 TO PRESENT

PAGE:

MONITORING PROJECTS:
SPOILED WETLANDS RECOVERY STUDY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, QUEEN ANN COUNTY

ABSTRACT:

A STUDY OF VEGETATIVE REHABILITATION OF THREE DISTURBED MARSHES IN QUEEN ANN COUNTY, MARYLAND IS BEING CONDUCTED. THIS ONGOING MONITORING PROJECT INCLUDES ALL SUBMERGENT AND EMERGENT PLANTS TO 3 FOOT WATER DEPTH AT THREE DISTURBED AREAS,WITH 52 STATIONS PER DISTURBED AREA. SAMPLES ARE TAKEN IN EARLY AND LATE SUMMER.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR
MARYLAND DEPARTMENT OF NATURAL RESOURCES
ANNAPOLIS, MARYLAND 21401

GRID LOCATOR:

DATA COLLECTED: OCTOBER 1957 TO PRESENT

MONITORING PROJECTS:
SUSQUEHANNA FLATS VEGETATION SURVEY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, SUSQUEHANNA FLATS

ABSTRACT:

THIS MONITORING SURVEY OF VEGETATION PRESENT ON THE SUSQUEHANNA FLATS STARTED IN 1957 AND IS ONGOING. IT INCLUDES DEPTH, SALINITY, SECCHI READINGS, PLANT SPECIES LISTS, PLANT RELATIVE ABUNDANCE, BENTHIC ANIMAL SPECIES LISTS, WATERFOWL FORAGE AVAILABILITY, AND SEASONALITY OF VEGETATION.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
VERNON STOTTS
MARYLAND DEPARTMENT OF NATURAL RESOURCES
ANNAPOLIS, MARYLAND 21401

GRID LOCATOR:

DATA COLLECTED: JUNE 1962 TO PRESENT PAGE:

MONITORING PROJECTS:
WOOD DUCK FLOAT CENSUS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, POTOMAC RIVER

ABSTRACT:

THIS MONITORING PROJECT INCLUDES COUNTS AND SPECIES DETERMINATION OF WATERFOWL, REPTILES, MAMMALS, BIRDS, AND BENTHIC PLANTS. SAMPLES HAVE BEEN MADE EACH JUNE SINCE 1962 ALONG A 180 MILE STRETCH OF THE POTOMAC RIVER. FISHING ACTIVITY IS ALSO NOTED. OBSERVATIONS ARE MADE FROM TWO DRIFTING BOATS WITH TWO OBSERVERS IN EACH BOAT.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
VERNON STOTTS
MARYLAND DEPARTMENT OF NATURAL RESOURCES
ANNAPOLIS, MARYLAND 21401

GRID LOCATOR:

DATA COLLECTED: 1967 TO PRESENT - PAGE:

MONITORING PROJECTS:
SUBSTRATE STUDIES IN THE PATUXENT RIVER

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:
SUBSTRATE STUDIES HAVE BEEN DONE IN THE PATUXENT RIVER SINCE 1967. MEASUREMENTS INCLUDE BIOMASS, SPECIES DETERMINATIONS AND COUNTS OF PELAGIC ANIMALS AND COUNTS OF BENTHIC PLANTS FROM MONTHLY SAMPLING.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR
BENEDICT ESTUARINE LABORATORY
BENEDICT, MARYLAND 20612

GRID LOCATOR:

DATA COLLECTED: 1970 TO PRESENT

PAGE:

MONITORING PROJECTS:

SUBSTRATE STUDIES IN THE CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, CALVERT CLIFFS

ABSTRACT:

SUBSTRATE STUDIES HAVE BEEN DONE IN THE CHESAPEAKE BAY, MARYLAND SINCE 1970. MEASUREMENTS INCLUDE BIOMASS, SPECIES DETERMINATION AND COUNT OF PELAGIC ANIMALS AND COUNTS OF BENTHIC PLANTS SAMPLED MONTHLY AT 4 STATIONS. (WOODEN 4x6' PANELS SET UP AT FOUR STATIONS. SAMPLED MONTHLY AND QUARTERLY.)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

7

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR
BENEDICT ESTUARINE LABORATORY
BENEDICT, MARYLAND 20612

GRID LOCATOR:

DATA COLLECTED: JUNE 1954 TO PRESENT **PAGE:**

MONITORING PROJECTS:
RESIDENT SPECIES OF ESTUARINE FINFISH

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:
LONG TERM SEINE SURVEY IN MARYLAND TRIBUTARIES TO CHESAPEAKE BAY. MONITORING OF YEAR CLASS STRENGTH, SPECIES COMPOSITION, AND SEASONALITY OF FISHES. CONSISTENT DATA FILE FOR WHOLE PROJECT PERIOD IN POTOMAC, CHOPTANK, NANTICOKE, SUSQUEHANNA, WICOMICO, SASSAFRAS, ELK, NORTHEAST, AND BOHEMIA RIVERS. OTHER RIVERS INCLUDED BUT NOT FOR THE ENTIRE TIME FRAME WERE CHESTER, PATUXENT, MANOKIN, BIG ANNEMESSEX, POCOMOKE, BLACKWATER, TRANSQUAKING, CHICAMACOMICO, MILES, SOUTH, MAGOTHY, PATAPSCO, BACK, AND MIDDLE RIVERS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR
MARYLAND DEPARTMENT OF NATURAL RESOURCES
ANNAPOLIS, MARYLAND 21401

GRID LOCATOR:

DATA COLLECTED: JUNE 1971 TO PRESENT PAGE:

MONITORING PROJECTS:
MARINE FINFISH AND SHELLFISH SURVEY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, OCEAN SIDE

ABSTRACT:

MONITORING OF FISHES WITH BEACH SEINE AND TRAWL OCCURS IN BAYS ON THE OCEAN SIDE OF THE EASTERN SHORE OF MARYLAND. DATA COLLECTIONS INCLUDE SPECIES LISTS, SIZE RANGE, NUMBERS AND HYDRO DATA. DATA IS EXPANDED TO AREA ESTIMATES. MAINLY SUMMER DATA, TO BECOME QUARTERLY SURVEY. (SOME DATA APPEARS IN WILLIAM SIPPLE FILE ON ECOLOGICAL WETLANDS ASSESSMENT.)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR
MARYLAND DEPARTMENT OF NATURAL RESOURCES
WYEMILLS REGIONAL STATION
WYEMILLS, MARYLAND 21679

GRID LOCATOR:

DATA COLLECTED: 1970 TO PRESENT **PAGE:**

MONITORING PROJECTS:
RADIOACTIVITY STUDIES OF SEDIMENTS AT CALVERT CLIFFS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, CALVERT CLIFFS

ABSTRACT:
DATA SHEETS INCLUDE RADIOACTIVITY STUDIES OF SEDIMENTS AT CALVERT CLIFFS, CHESAPEAKE BAY, MARYLAND. STUDIES INCLUDED SPECIES DETERMINATIONS AND MEASUREMENTS OF BETA ACTIVITY OF BENTHIC PLANTS AND PELAGIC AND DEMERSAL FISH, AND STUDIES OF SALINITY, PH AND TURBIDITY. SAMPLING HAS BEEN DONE FOUR TIMES PER YEAR AT SIX STATIONS SINCE NOVEMBER 1971.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
BALTIMORE GAS AND ELECTRIC COMPANY

GRID LOCATOR:

DATA COLLECTED: JULY 1971 TO PRESENT **PAGE:**

MONITORING PROJECTS:
CHESAPEAKE BAY AQUATIC VEGETATION SURVEY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:

THIS ONGOING MONITORING PROGRAM BEGAN IN JULY 1971 TO RECORD THE DISTRIBUTION AND ABUNDANCE OF SUBMERGED AQUATIC VEGETATION IN THE UPPER CHESAPEAKE BAY. ALL MARYLAND TRIBUTARIES INCLUDING THE POTOMAC RIVER ARE SURVEYED BETWEEN JULY AND SEPTEMBER OF EACH YEAR. EACH STATION IS MONITORED ONCE DURING THESE MONTHS. THE RAW DATA IS STORED ON MAGNETIC TAPE AND SUMMARIZATION OUTPUTS ARE AVAILABLE FOR EACH YEAR. THIS DATA IS SUMMARIZED BY RIVER SYSTEM.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
ROBERT MUNRO
PATUXENT WILDLIFE RESEARCH CENTER
U.S. FISH AND WILDLIFE SERVICE
LAUREL, MARYLAND 20811

GRID LOCATOR:

DATA COLLECTED: APRIL 1974 TO PRESENT

PAGE:

MONITORING PROJECTS:
REMOTE SENSING OF SUBMERGED AQUATIC VEGETATION

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, VIRGINIA

ABSTRACT:
MISSIONS ARE FLOWN BY VIRGINIA INSTITUTE OF MARINE SCIENCE PERSONNEL USING AN INSTITUTE LIGHT AIRCRAFT EQUIPPED WITH A MOUNTED HASSELBLAD 500 EL/M CAMERA(50 MM F/4 DISTAGON LENS) AT ALTITUDES VARYING FROM 5000 TO 8000 FEET. THE PROJECT BEGAN IN APRIL 1974. THE OBJECTIVE OF THIS ONGOING MONITORING PROGRAM IS TO STUDY THE DISTRIBUTION OF SUBMERGED AQUATIC VEGETATION IN THE LOWER CHESAPEAKE BAY.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. ROBERT J. ORTH
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA 23062

GRID LOCATOR:

PAGE:

DATA COLLECTED: FEBRUARY 1976 TO PRESENT

MONITORING PROJECTS:
INVESTIGATION ON GROWTH DYNAMICS AND CHARACTERISTICS OF EELGRASS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, VIRGINIA, MOBJACK BAY, HUNGARS CREEK

ABSTRACT:
FOUR REPLICATE SAMPLES EACH ARE TAKEN EVERY MONTH AT A STATION IN MOBJACK BAY AND ONE IN HUNGARS CREEK, VIRGINIA. THE PROJECT BEGAN IN FEBRUARY 1976. THE OBJECT OF THIS ONGOING MONITORING PROGRAM IS TO DETERMINE THE GROWTH DYNAMICS AND CHARACTERISTICS OF EELGRASS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. ROBERT J. ORTH
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA 23062

GRID LOCATOR:

DATA COLLECTED: 1968 TO 1975

PAGE:

MONITORING PROJECTS:

SUBSTRATE STUDIES ON THE POTOMAC RIVER

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, POTOMAC RIVER

ABSTRACT:

SUBSTRATE STUDIES HAVE BEEN DONE ON THE POTOMAC RIVER SINCE 1968. MEASUREMENTS INCLUDE BIOMASS, SPECIES DETERMINATIONS AND COUNTS OF PELAGIC ANIMALS AND COUNTS OF BENTHIC PLANTS FROM MONTHLY SAMPLING. (SPURIOUS DATA DUE TO STORMS.)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR
BENEDICT ESTUARINE LABORATORY
BENEDICT, MARYLAND 20612

GRID LOCATOR: